# The OIL WEEKLY

10¢ A COPY

March 5, 1926 Volume 40. No. 11



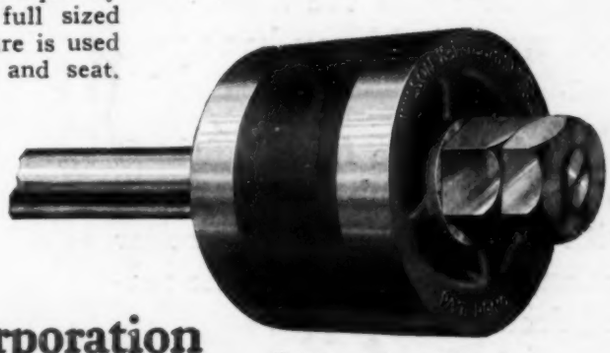
It's a Wilson

## Improved Service for your Slush Pumps

### WILSON VALVES AND PISTONS

Slush Pump efficiency depends upon the proper operation of the Valves and Pistons. The Wilson Valve assures greatly improved valve action. The valve beats directly upon the seat—not upon the rubber. Consequently the rubber lasts indefinitely. A full sized opening is made. Hydraulic pressure is used to seal the rubber to valve body and seat. Simple and foolproof.

The Wilson Piston is likewise efficient in operation—simple in design, automatic in action. Rubber gives twice the wear of any other type.



**Wilson Oil Tools Corporation**
DISTRIBUTORS FOR
**Wilson & Willard**
MANUFACTURING COMPANY

Factory and Distributor's Office — It's a Wilson — 2301 East Vernon Ave.
Los Angeles, Calif.

Get our new prices on pump valves.

Descriptive folders upon request.

SALES OFFICES:
Tulsa, Okla. 409 Atlas Life Bldg.
Ft. Worth, Texas 803 Dan Waggoner Building
Houston, Texas 530 West Bldg.

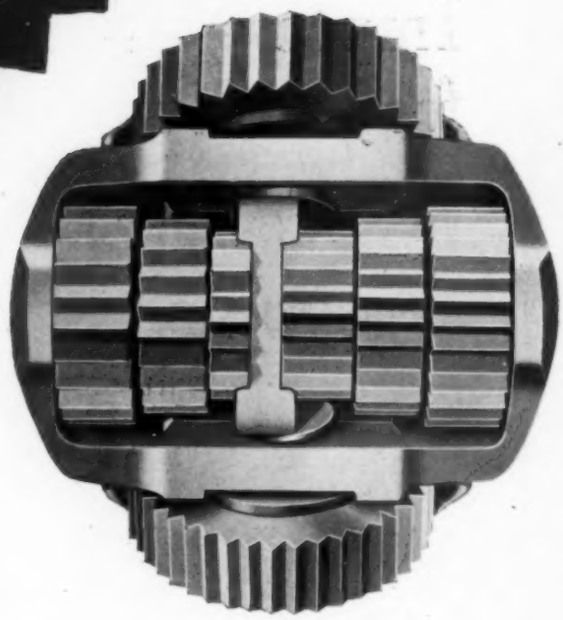
Patents Pending

# *It's* Hard Rock That Holds You Back

You are bound to slow up each time you strike hard rock. But with a Reed on the floor, hard rock won't hold you back very long.

A quick change from a fishtail to the slush-lubricated Reed, with its fast-cutting cross roller action, enables you to make record time.

Keep a Reed Rock Bit on the derrick floor for that hard rock.



The teeth of the opposite cutters are pitched differently, so that, with one revolution of the drill stem, every part of the hole is doubly covered.

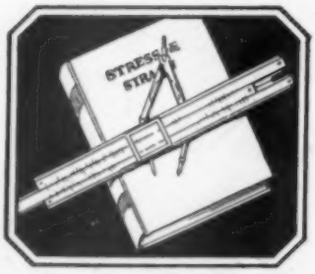
# Reed Rock Bits

**Reed Roller Bit Company**

HOUSTON LOS ANGELES

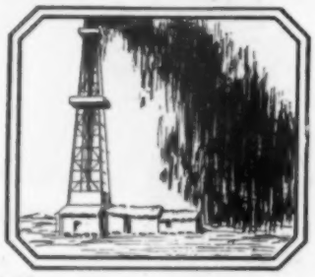
Follow THE LEAD OF THE LEADERS
Prairie Pipe Line Co.
Sinclair Pipe Line Co.
Texas Pipe Line Co.
Magnolia Pipe Line Co.
Pierce Petroleum Corp.
White Eagle Oil & Refining Co.
Oklahoma Pipe Line Co.
Pure Oil Pipe Line Co.
Carter Oil Co.
Mammoth Oil Co.
Midwest Refining Co.
Wichita Pipe Line Co.
Cosden Pipe Line Co.
Humble Pipe Line Co.
Gulf Pipe Line Co.
Gulf Refining Co. of Louisiana
Standard Oil Co.
The companies listed in the panel above are just a few of the leaders who use GASO pumping equipment. A complete list looks like a blue book of the Petroleum Industry. Central location, sterling quality and a comprehensive line present an unbeatable combination which the leaders, being leaders, have been quick to appreciate. May we send you our new 64-page catalog?
GASO PUMP & BURNER MFG. CO. · Tulsa, Okla.
GASO PUMPS
for every oil industry need

# When You are a Customer
## Your Equipment Money Buys —



### Engineering Knowledge

International "IDECO" Equipment represents the application of the highest standards of approved engineering theories and formulas, first grade material and manufacturing processes to accomplish the most practical and efficient equipment for use in the Oil, Gas and Artesian industries.



### Actual Experience

International "IDECO" equipment is backed by experience from thousands of IDECO installations in the service of major oil companies under all imaginable conditions in almost every oil and gas field on this and foreign continents.

All IDECO designs and initial equipment is tested in the field at International's expense—not the customers'.

### Confidence

The International Derrick & Equipment Company is today the world's largest concern of its kind. Its sound business policies and the uniform high quality of its products should make International the leader 10 years from today. Every "IDECO" purchaser has absolute confidence in the integrity of the company he deals with.

### World-wide Service

"International's" business is exactly what its name implies, as shown by its widespread use among important oil companies, both here and abroad. IDECO Warehouses and Yards, local to every active field, provide the operator with quick delivery and satisfactory service at all times.

# INTERNATIONAL STEEL IDECO DERRICKS (GALVANIZED)

*Say you saw it in The OIL WEEKLY*

# of International "Ideco"

The superiority of the steel derrick over the wooden derrick need not be dwelt upon—its efficiency has been proven in practically every field in the country. The question today is, "what kind of a steel derrick shall I buy?" Consider them all, and then remember that International "Ideco" offers you a Structural Steel Derrick built entirely by "International" of new first-grade material—no seconds, no rejects. "Ideco" equipment—Derricks, Wheels, Crown Blocks, Walking Beams, etc., is protected against rust indefinitely by the hot dip galvanizing process, applied after fabrication. The paint pot is unknown on an "Ideco" equipped well, and repairs are reduced to practically nothing.

## The International Derrick & Equipment Co.

**Columbus, Ohio** **Torrance, Cal.**

Dallas Denver Tulsa Shreveport Houston Casper Bakersfield
Oil City Smackover Eldorado, Kansas Wichita Falls
Corsicana Mexia New York

California National Supply Co.—Distributors in California.

*The largest company devoted exclusively to the manufacture of steel (galvanized) equipment for the oil, gas and artesian industries*

# INTERNATIONAL STEEL IDECO DERRICKS (GALVANIZED)

*Say you saw it in The OIL WEEKLY*

# LOOKING BACK 25 LOOKING AHEAD

*from* YEARS OF *after*

1900 ACME 1925

## *Fishing Tool Service*

### *The Past Twenty-five Years*

WE have just closed our 1925 records. We finished our compilations with leisurely carefulness, though none the less eagerly. Every business is entitled to be especially interested in the summary of an even quarter century of SERVICE.

The history of "Acme" has been one of continuous, sincere effort to put its Products and its Service on the highest possible plane. The results are pleasing.

The operators of the Industry who have been served with Acme during these years have approved our initial ideals.

Our books show that better than 90 per cent of Acme customers gained during this time are still Acme customers where still engaged in drilling. We believe this means our policy has been a good policy for them.

### *The Next Twenty-five Years*

TIME alone will tell—is the old saying. But we feel that the same perseverance for the second twenty-five years, as during the first, will win even greater acknowledgment. The impetus gathered will carry us forward with increased momentum.

We are pleased. But we are not satisfied. With the knowledge gained from the past we can prepare better for the future.

There is no intention of resting at this point. A generally broadened scope, a greater development of our present comprehensive manufacturing facilities, and intensified effort toward the improvement of Acme's three cardinal principles,—*Quality, Service* and *Value*—are our resolutions.

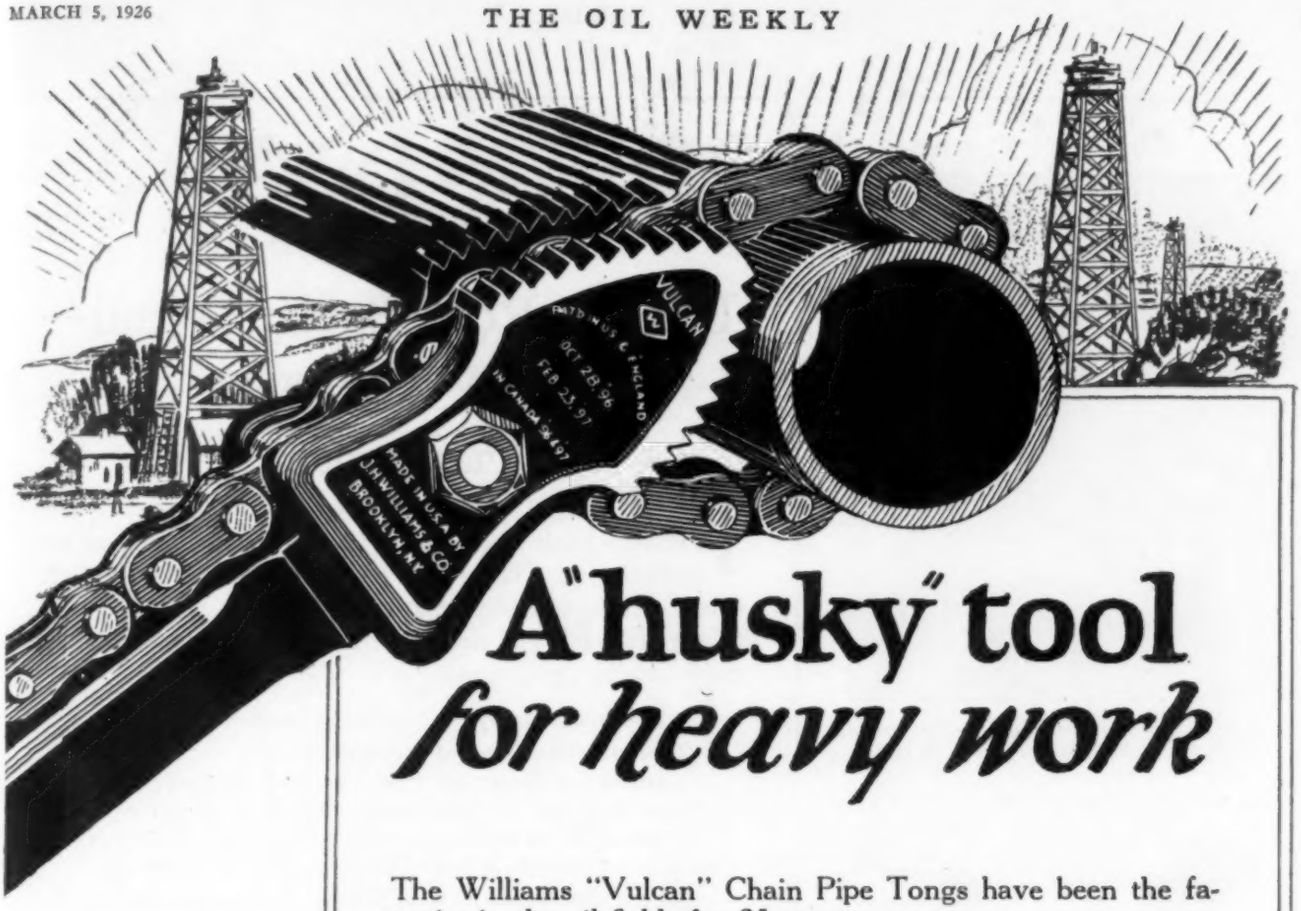
In the execution of these we pledge the Oil Industry our best Acme efforts.

## ACME FISHING TOOL CO.

**Export Office: 136 Liberty St., New York City, N.Y.**

**Warehouses and Distributors**

Midland Iron Works—Billings, Montana.
Great Northern Tool and Supply Co.—Kevin, Montana.
Acme Rental Tool Service Co.—Graham, Texas.
Acme Fishing Tool Co. of Texas—Vernon, Texas.
Brown Tool Company—Cross Plains, Texas.
Brown Welding and Machine Co.—Breckenridge, Texas.
Elms Bros. & Co.—Waynesburg, Pa.
Acme Fishing Tool Co.—Tulsa, Oklahoma.
Acme Fishing Tool Co.—Okmulgee, Oklahoma.
Logan Foundry and Machine Co. Logan, Ohio.




# A "husky" tool *for heavy work*

The Williams "Vulcan" Chain Pipe Tongs have been the favorite in the oil fields for 25 years.

Sturdy, dependable service year in and year out plus the power for the toughest job has made them the recognized leaders where strength and stamina are needed.

The proof-tested, certified flat link chain swings from the center and can be used on either side of the jaws.

Williams' "Vulcan" is wholly made of wrought steel. All parts are interchangeable. Nine sizes for 1/8 to 18" pipe.

Write for information.

**Supplied with either Flat Link or Cable Chain**

**J. H. WILLIAMS & CO.**

*"The Wrench People"*

New York **BUFFALO** Chicago

**Look for this trade-mark**

# WILLIAMS

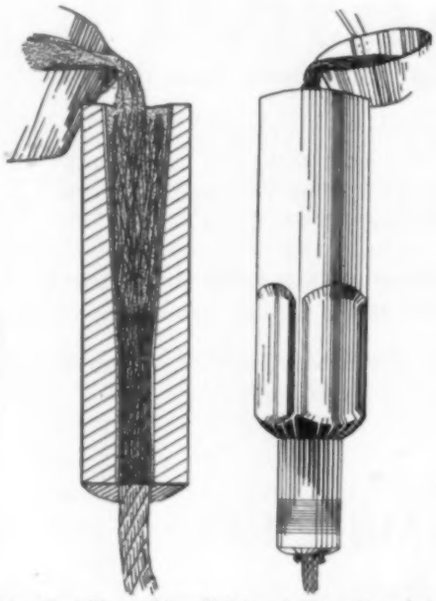
SUPERIOR DROP-FORGINGS

## "VULCAN"

## CHAIN PIPE WRENCH

*Say you saw it in The OIL WEEKLY*

*Eagle Rope Socket Metal melts at 750° Fahrenheit —it is practical and easy to pour in the field.*



*It is especially good for all types of wire rope sockets. The wire rope is cleaned and shredded in the usual way—and this new metal grips it tenaciously.*

Write for this interesting booklet FREE

# How to use the new EAGLE Rope Socket Metal— *for socketing wire rope*

THE new Eagle Rope Socket Metal—specially alloyed for socketing wire rope—has been received in the field enthusiastically. It is strong, tough, hard, light, economical. It fills another oil field need. For its efficient use we suggest the following procedure:

1. Use an absolutely clean ladle and pot.
2. Be sure the surfaces of wire rope are clean and free from grease and dampness. Free rope from grease by treatment in lye. [38 pounds caustic soda to 100 gallons of water.] Then wash with warm water and dry. Free rope from rust with 20% hydrochloric acid. Wash and dry.
3. Pour rope socket metal at lowest temperature possible. The lower the temperature, the better the casting, and tougher.
4. Pour rapidly into socket, holding the ladle as closely to the work as possible, to avoid air bubbles.
5. Eagle Rope Socket Metal melts at 750° Fahrenheit and pours easily and freely.
6. Melt over a slow, even fire.
7. With proper care, every socketing job will be much more safe and will last from two to three times as long as a job poured from No. 4 Babbitt or any other cheap metal.

Ask your dealer for Eagle Rope Socket Metal, or write Eagle-Picher at Joplin for free descriptive booklet.

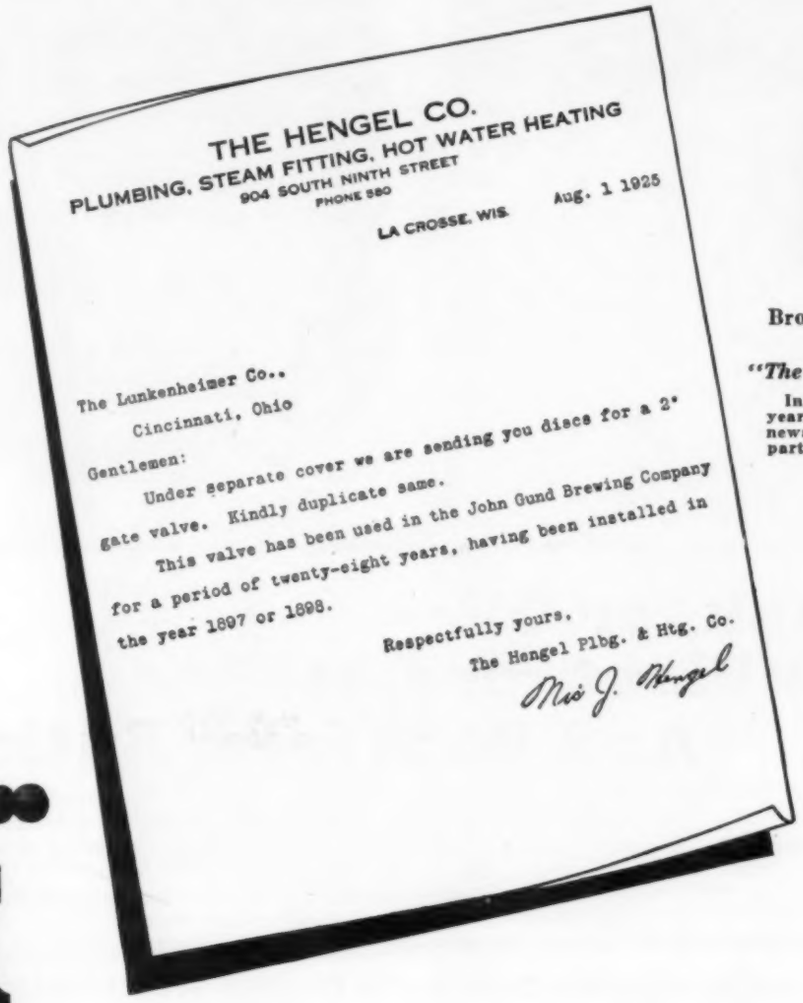
*The* EAGLE-PICHER LEAD COMPANY
*Chicago · Joplin · Cincinnati*

# EAGLE Rope Socket Metal

*Producers of lead and allied products·· Eleven Plants · Branches in all principal cities*

# After 28 Years of Service

**It was only necessary to renew the discs, to make the valve good for many added years of service.**



THE HENGEL CO.
PLUMBING, STEAM FITTING, HOT WATER HEATING
904 SOUTH NINTH STREET
PHONE 580

LA CROSSE, WIS. Aug. 1 1925

The Lunkenheimer Co..
Cincinnati, Ohio

Gentlemen:

Under separate cover we are sending you discs for a 2" gate valve. Kindly duplicate same.

This valve has been used in the John Gund Brewing Company for a period of twenty-eight years, having been installed in the year 1897 or 1898.

Respectfully yours,
The Hengel Plbg. & Htg. Co.
Mic J. Hengel

**Lunkenheimer Bronze Double Disc Gate Valve**

***"The Leader in the Nineties"***

**In actual service for 28 years, and then—required renewal of discs only. All other parts are in excellent condition.**

**Lunkenheimer Bronze Double Disc Gate Valve Fig. 427**

***"The Leader Today"***

**150 lb. W. S. P.**
**Sizes ¼ to 3 in.**

**Lunkenheimer Bronze Double Disc Gate Valves are illustrated and described in an attractive folder, a copy of which will gladly be sent upon request, without any obligation.**

**JUST FILL IN AND MAIL THE COUPON.**

**THE LUNKENHEIMER CO.**
"QUALITY"
LARGEST MANUFACTURERS OF HIGH GRADE ENGINEERING SPECIALTIES IN THE WORLD
NEW YORK CHICAGO **CINCINNATI, U.S.A.** BOSTON LONDON
EXPORT DEPT. 129-135 LAFAYETTE ST., NEW YORK

THE LUNKENHEIMER CO. "QUALITY"
Gentlemen:—Please send me, without obligation, a copy of your Bronze Gate Valve Folder No. 550.
Name .....
Firm .....
Address .....

11-17-90

Butler *Ready-Made* Steel Building in use as a gasoline plant

Butler Bolted Tanks are vapor tight

# A Tank for Oil— A Plant for Gasoline— And Both from Butler's!

BUTLER Bolted Tanks are vapor tight and protect your oil.

All holes are punched in massive machines. No chance for human error. Sheets are larger. This makes easier, speedier erection and accurate construction. Tightness is absolutely assured!

Butler *Ready-Made* Steel Buildings are stronger and sturdier than ordinary but are no higher in price.

They are made of 24-gage galvanized steel. The corrugations are deeper and wider than usual. This construction makes the units stiffer.

Similar parts are interchangeable. Your own employees can put them together. They are fireproof and can be insulated and lined.

**ANY KIND OF WELDED TANK MADE TO YOUR SPECIFICATIONS**

*These reliable dealers are ready to give you speedy service:*

M & V Tank Co., at Wichita Falls, Vernon and Olney, Texas.
Drane-Humphrey Co., at San Angelo and Big Lake Texas, and Carlsbad, N. M.
Drane Tank Co., at Tulsa, Helderville and Eraman, Oklahoma, and Winfield, Kansas.
M. A. Trimmer, at Blackwell, Oklahoma.
Wilson Tank & Culvert Co., at San Antonio, Texas.
Los Angeles Mfg. Co., at Los Angeles, California.
Petroleum Specialties Co., at Casper, Wyoming.
D. H. Greenwood, 709 California Fldg., Los Angeles, California.
Cortinental Supply Co., at Kevin, Montana.
Thomas Moran, at Oil City, Louisiana.
G. J. Gillespie, at 32 Fenchurch St., London, E. C. 3, England.

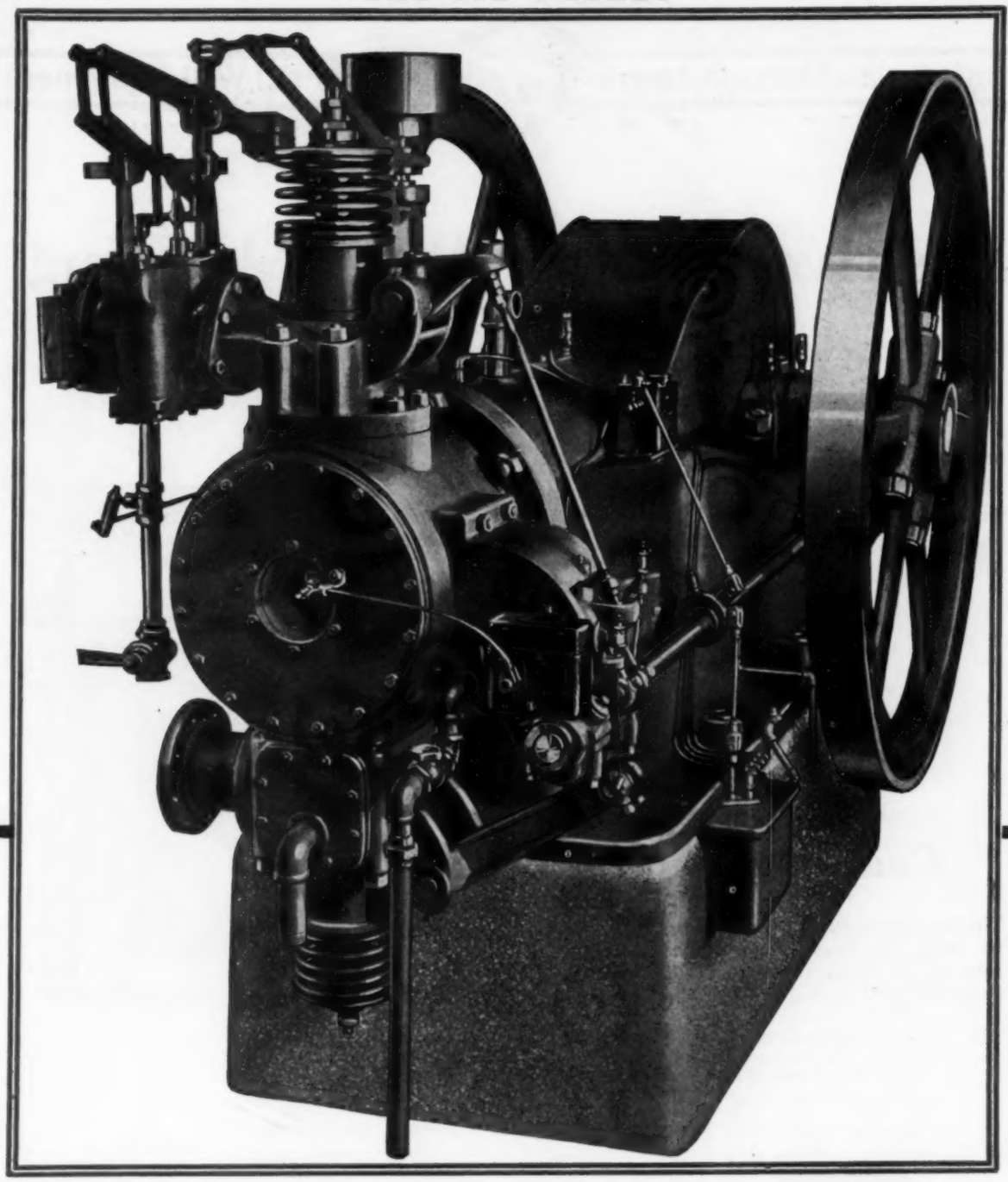
# Butler Manufacturing Company

**Kansas City, Mo.** **Minneapolis, Minn.**

*Butler Products include: READY-MADE Steel Buildings, Cans, Funnels, Buckets, Measuring Pumps, Truck Tanks, Underground Tanks, Storage Tanks, Etc.*

TRADE STEEL BUTLER PRODUCTS MARK

*Butler's Oil Supplies Catalog is complete. It contains useful handy information. 96 pages, illustrated in 4 colors. Copy sent on request.*



# *A New Reid Gas Engine*

A Four Cycle Engine with many distinctive and advantageous features and which develops 65 H. P. at 150 R. P. M. The slow operating speed permits the use of a large diameter pulley with consequent greater area of belt contact and higher rate of belt travel, two factors contributing to the efficiency of the drive.

***Write for descriptive catalog***

## Joseph Reid Gas Engine Company, Oil City, Pennsylvania, U. S. A.

Branches and Agencies: Marietta, Ohio; Logan, Ohio; Newark, Ohio; Shreveport, La.; Charleston, W. Va.; R. B. Moore, Bolivar, N Y.; Frick & Lindsay Co., Bradford, Penna., and Kentucky Distributors; S. R. Shoup, 708 Pacific Electric Bldg., Los Angeles, Calif.; Frick-Reid Supply Co., Tulsa, Okla., and Branches, Distributors for Oklahoma, Kansas, Texas, Arkansas and Wyoming. Export Sales Representative—Oilfield Equipment Co., Inc., 30 Church St., New York City. Branch Shop: Tulsa, Okla.

Designers and Manufacturers of Quality Oil Well Equipment

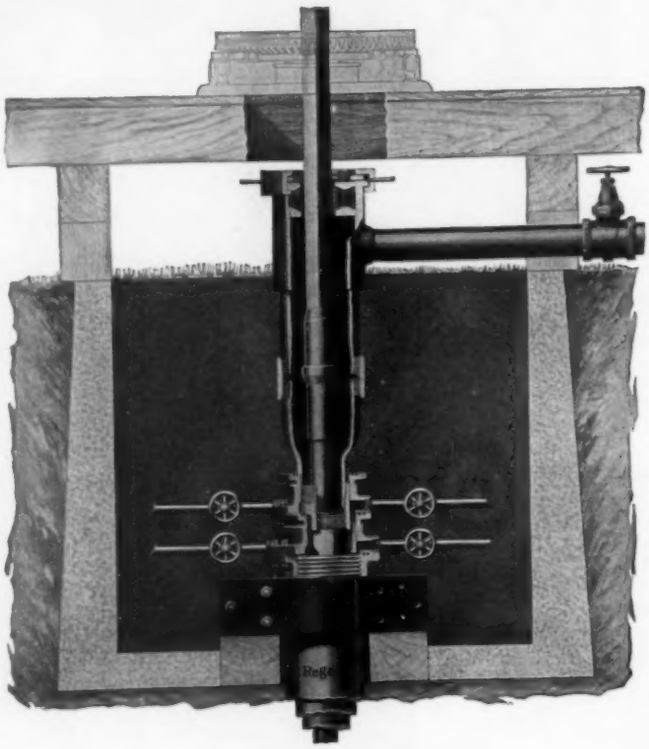
# Positive Control While Drilling

When drilling against pressure you must have quick access to the control devices. With the Regan Drilling Blowout Preventer you can keep your well under absolute control while drilling as the device seals tightly around the Kelly in the event of a blowout.

## Regan Drilling Blowout Preventer and Control Head

The illustration shows the method of hook-up using the Regan Control Head. A valve can be installed between the Blowout Preventer and Control Head if desired.

You can positively eliminate the hazard of a blow-out with these devices. Ask for catalog.



# Regan

Forge & Engineering Co.

Quality – Wrought on the Forge of Experience

San Pedro

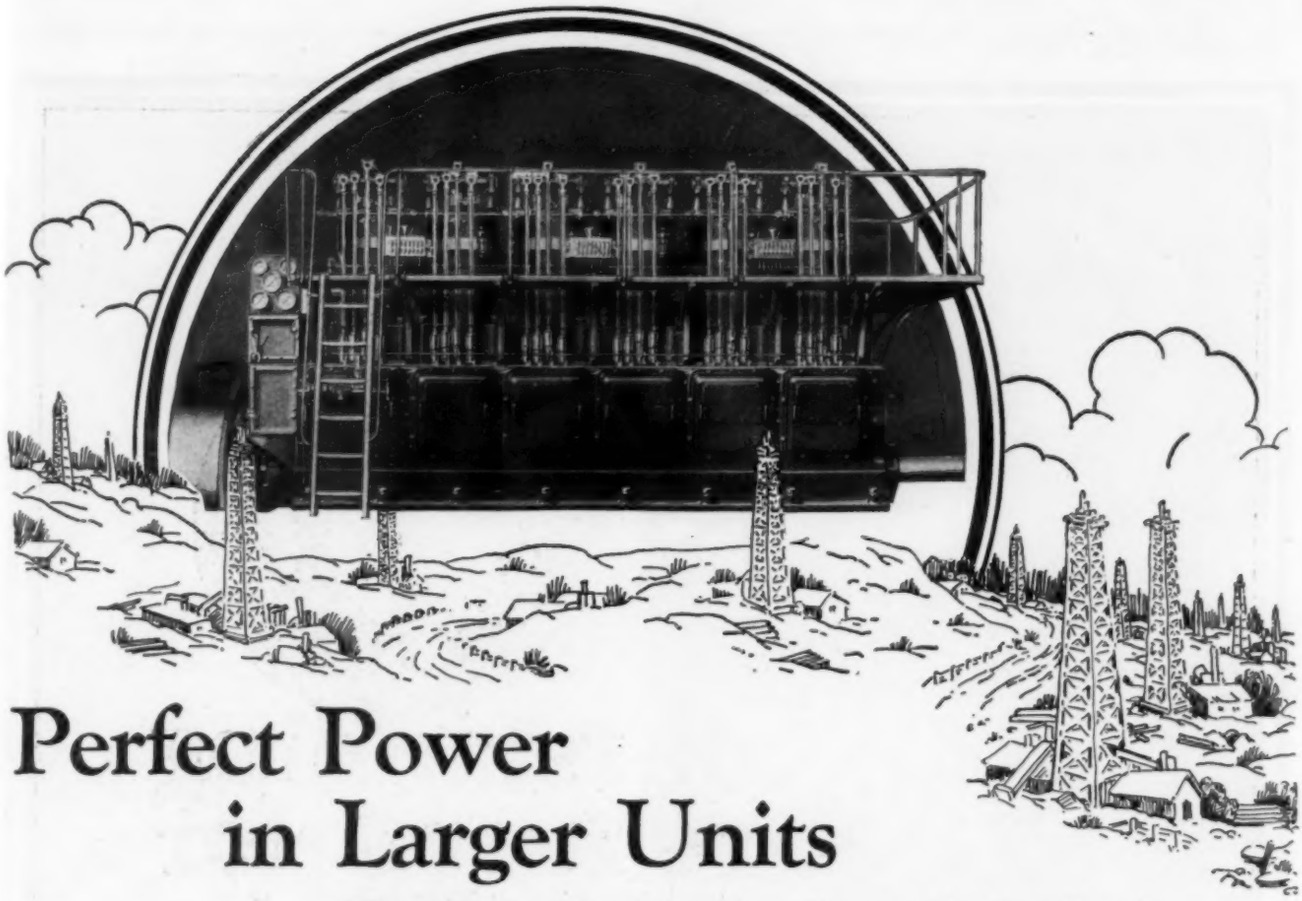
Wm. Braat, New York Manager, Woolworth Building.

California

Regan Sales Company, California Distributors

J. A. Becker, Mid-Continent Mgr., Tulsa, Okla.

*Say you saw it in The OIL WEEKLY*



# Perfect Power in Larger Units

BESSEMER Diesels have been developed and perfected to supply the Oil Industry with a power source of typical Bessemer efficiency and durability in units of larger horsepower.

For pipe line pumping stations, as the main power plant in refineries, for boats and tankers, and for use wherever a dependable heavy duty power source of large horsepower is needed, a Bessemer Diesel is the most reliable, economical and efficient power unit that can be installed.

Bessemer Diesels, like all other Bessemers, are built overstrength in every part to outwork and outlast any other similar equipment. They are unusually quiet, have a lower fuel consumption per horsepower and will work continuously for a lifetime. Bessemer Diesel efficiency is proved by the operating records of scores of installations.

Before you install a heavy duty power plant investigate the perfected Bessemer Diesel, the engine that has proved itself the best in Oil Industry, Marine and Identical service.

THE BESSEMER GAS ENGINE COMPANY
62 York Street ∴ ∴ Grove City, Pa.

# BESSEMER

BESSEMER OIL FIELD ENGINES – COMPRESSORS VACUUM PUMPS – ROLLER PUMPING POWERS

*Say you saw it in The OIL WEEKLY*

THE 3

outstanding reasons for Axelson Sucker Rod endurance

1- Vanishing thread-

2- Special analysis steel-

3- Quality workmanship

PERFORMANCE TELLS THE STORY

Axelson Manufacturing Company

# *Announcement*

## PITTSBURGH REINFORCED BRAZING & MACHINE COMPANY

PITTSBURGH, PENNSYLVANIA

*manufacturers of*

**Valves** KEROTEST **Fittings**

ANNOUNCE THE CHANGE OF THEIR CORPORATE TITLE TO

## Kerotest Manufacturing Company

*Effective March 1st, 1926*

**Distributors**

Grinnell Co. of the Pacific
LOS ANGELES SAN FRANCISCO

Oil Well Supply Company
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Oil Well Supply Company
PITTSBURGH NEW YORK TAMPICO LONDON

Crain Sectional Buildings (Portable) For Industrial Purposes

Crain Ready-Cut Houses (Not Portable) For Permanent Homes

Warehouses
Bunkhouses
Attractive Homes
Garages
Store Buildings
Etc.

# CRAIN
## SECTIONAL BUILDINGS
(PORTABLE)

## Fill Every Oil Field Requirement of Durability, Economy, Good Appearance and Time Saving

*Shipped from stock on receipt of order*

## CRAIN READY-CUT HOUSE CO.

*Polk and Milby Sts.* **Houston, Texas** *Tel. Preston 3448*

EASILY AND QUICKLY ERECTED BY UNSKILLED LABOR

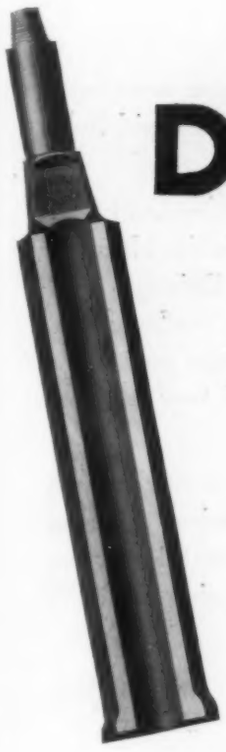
*Write for Catalog*

CAN BE KNOCKED-DOWN, MOVED, AND RE-ERECTED AT A NEW LOCATION

*Write for Catalog*

# IDEAL

# DRILLING BITS



IDEAL DRILLING BITS
FORGED FROM IDEAL
ELECTRIC STEEL ARE
GUARANTEED AGAINST
BREAKING OR CHECKING
WHEN DRESSED AND
TEMPERED IN ACCORDANCE
WITH FURNISHED INSTRUCTIONS

## THE NATIONAL SUPPLY COMPANIES

*Say you saw it in The OIL WEEKLY*

*Mr. Layton writes an interesting testimonial for*

# The Standard Collapsible Rotary Drill and Core Barrel

Humble, Texas, February 25th, 1926.

Mr. O. M. Carter,
Houston, Texas.
Dear Sir:

In drilling an oil well the saving of labor, fuel and wear and tear on machinery, of course, pleases the owners, but rapid hole making is always demanded of a driller and his crew.

I have just given your Standard Collapsible Rotary Drill and Core Barrel a very severe test in rapid hole making in the Humble oil field in drilling a well for the Ham interests of Chicago, and wish to state that I was agreeably surprised by the performance of your drill. It accomplishes more in this respect than you claim for it and the saving of labor, fuel and wear and tear on machinery is surprising.

This tool is stronger than a drill stem and goes into the ground faster than any bit I have ever used—only a few minutes being required to put sharp bits at bottom of the hole, or take cores, progress in deepening the well is almost constantly being made.

Yours truly,
(Signed) R. (Bob) M. Layton.
Driller.

This is only one of numerous like testimonials on file in this office.

*Write for Descriptive Literature Today*

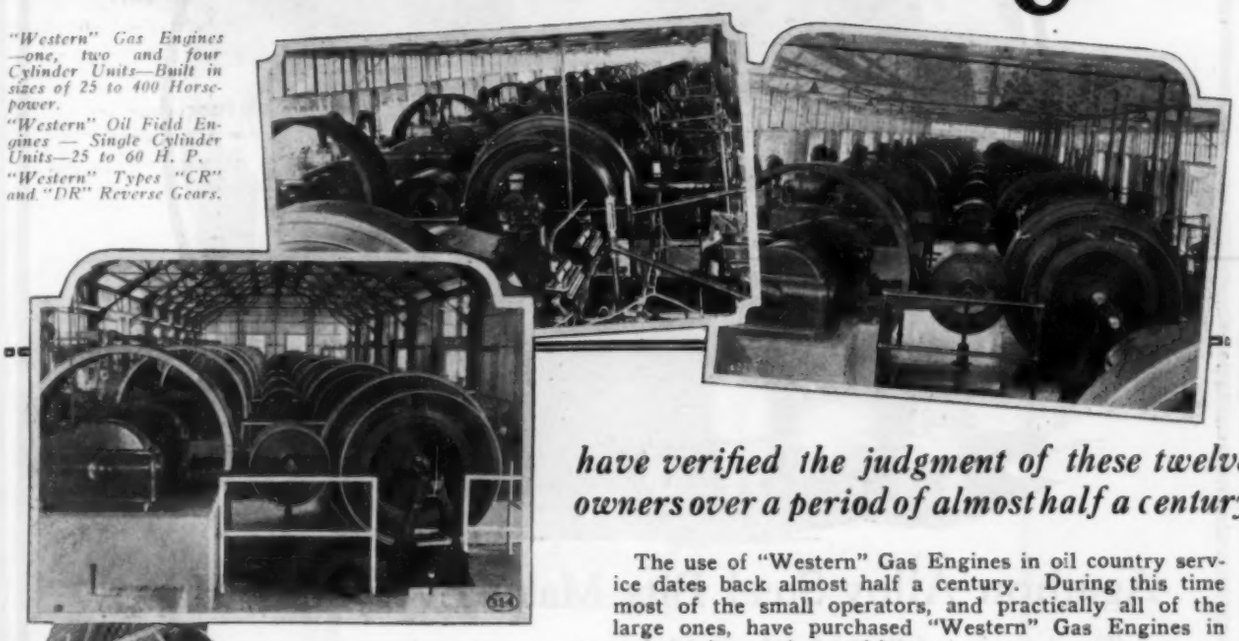
## O. M. CARTER

**W. T. HILTPOLD, Sales Agent**
**206-7-8 Scanlan Bldg., HOUSTON, TEXAS**

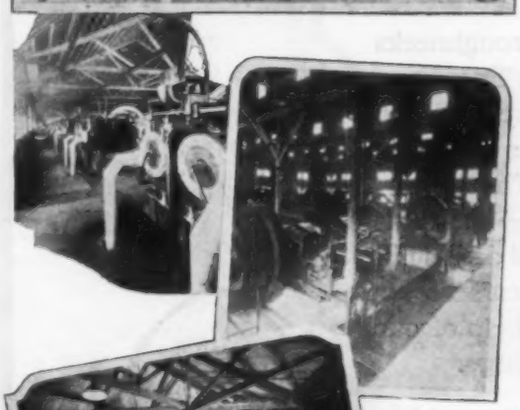
# 2½ million dollars

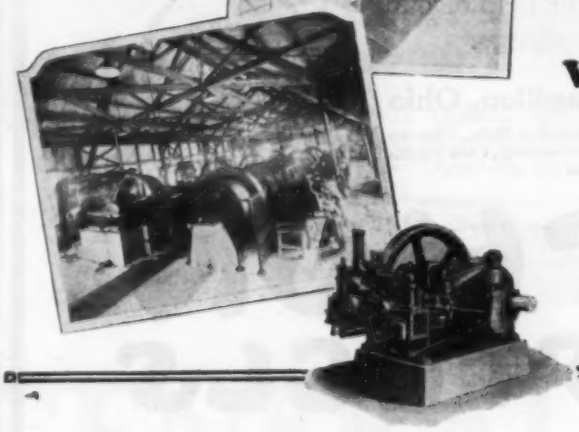
## worth of WESTERN Gas Engines

*"Western" Gas Engines —one, two and four Cylinder Units—Built in sizes of 25 to 400 Horsepower.*
*"Western" Oil Field Engines — Single Cylinder Units—25 to 60 H. P.*
*"Western" Types "CR" and "DR" Reverse Gears.*









### *have verified the judgment of these twelve owners over a period of almost half a century*

The use of "Western" Gas Engines in oil country service dates back almost half a century. During this time most of the small operators, and practically all of the large ones, have purchased "Western" Gas Engines in various sizes and quantities.

Among these owners and users are twelve oil companies of international importance, operating in the principal oil fields of the world, whose investments in "Western" Gas Engines during the past 40 years amount to well over two and a half million dollars.

After almost half a century of continuous association, these twelve companies are among "Western's" most loyal owners and enthusiastic supporters. On many of their leases they have standardized on "Western" Engines exclusively. For "Western" Engines have proved through superior performance over this long period of time their title to the confidence placed upon them.

**Western Machinery Company**

General Offices and Factory: 905 North Main Street
Los Angeles, California

1106 Nineteenth St., Bakersfield, Calif.

San Francisco Offices and Factory:
Eighteenth and Alabama Streets

720 S. Kenosha St., Tulsa, Oklahoma

## Agathon Alloy Steel Bits Make Everybody Happy

The happiest fellows in the field are the roughnecks drilling with bits made of Agathon Alloy Steel. They wear smiles while the bits wear rock. And the bits keep on wearing rock and anything that comes in their way three times as long as bits made of ordinary steel. That means only one-third of the pullings for sharpening—one-third of the delays—and three times as much actual drilling in a given time. Doesn't that interest you? Then send for our Agathon Alloy Steel handbook and the help of our metallurgists. We furnish both without charge.

AGATHON STEELS

THE CENTRAL STEEL COMPANY, Massillon, Ohio

Swetland Bldg., Cleveland Book Bldg., Detroit Peoples Gas Bldg., Chicago
Aeolian Bldg., New York University Block, Syracuse Widener Bldg., Philadelphia
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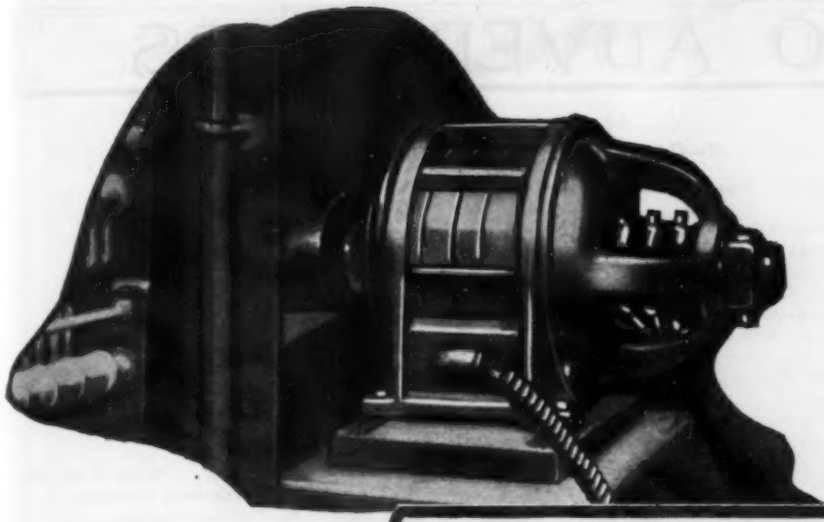
# AGATHON ALLOY STEELS



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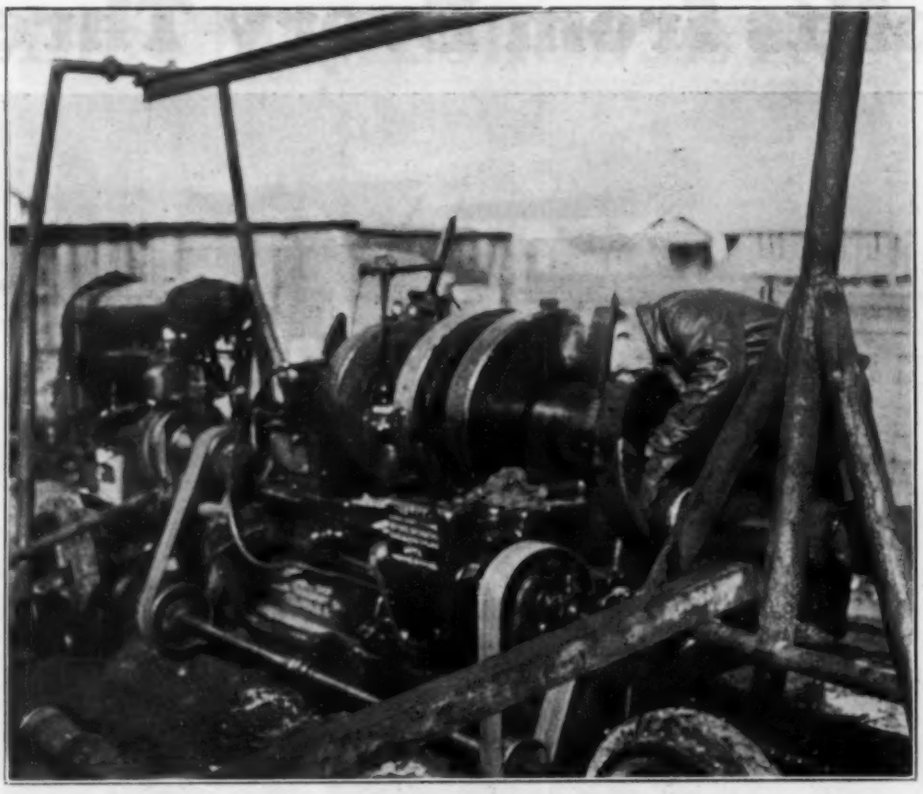

*Portable pipe machine used by the Pure Oil Company. The company takes the machine to the pipe instead of taking the pipe to the machine.*

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**March 5, 1926** **Volume 40, Number 11**

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*Say you saw it in The OIL WEEKLY*

# Pipe Line May Follow as Result of Panhandle Deal

## Gulf pays one million for half interest of 11,573 acre consolidation; big drilling campaign to result

*By H. H. King*
*Staff Representative*

Fort Worth, Texas.—Consolidation of the producing properties and undeveloped acreage of the Gulf Production Company and the Walter Cline-Panhandle Refining Company interests in the north end of the Hutchinson County field will be followed by the construction of an eight-inch pipe line from the field by the Gulf Pipe Line Company. This line will be the first direct outlet from the Panhandle district, and will tie into the Gulf Pipe Line Company's eight-inch line at Ranger, a distance of about 250 miles. From Ranger the crude will be pumped via Fort Worth and Saltillo junctions to Gulf's principal refinery at Port Arthur.

Contracts were signed Tuesday in Fort Worth by officials of the Gulf Production Company, Panhandle Refining Company and Walter Cline for the merger of their holdings on the Perkins-Martin (Dial), Whittenburg, Thompson, Hodges and Riemer ranches, involving 11,573 acres with six oil producers estimated good for 1,200 barrels of high gravity crude daily. Gulf's acreage and producing leases located south of the Canadian River in Hutchinson County were not included in the transaction. Cline & Panhandle Refining Company hold leases on approximately 8000 acres with three wells rated at 800 barrels daily, and Gulf has about 3500 acres with three wells adjoining those of the former interests. According to the terms of the contract, both properties have been pooled, and Gulf pays $1,000,000 cash to the Cline-Panhandle interests for an undivided half interest in the entire lot. Walter Cline and Panhandle Refining Company will each hold a one-quarter interest in the merged properties.

A separate organization is to be used by Gulf in the development of these properties, and headquarters are to be established in the field proper. The initial development program to be launched by Gulf will result in the drilling of five tests, and additional drilling that is to follow will be largely governed by market conditions and facilities for handling the crude. The construction of a tank farm in the field is to begin shortly to permit operation of present producing wells, which have been practically shut in since completion for lack of facilities in moving the crude to market.

### First North of Canadian

Gulf, Panhandle and Walter Cline were among the first operators to acquire leases north of the Canadian River in Hutchinson County, and the former company brought in the first oil producer in 1922. Cline and Panhandle have been holding their large block of acreage for nearly seven years, and drilled their three producers last year, two of which are direct offsets to producers owned by Gulf. All six wells are producing from sandy-lime pay around the 3000-foot level, and are making 38 gravity crude.

The Panhandle Refining Company reserves the right to purchase a certain percentage of the crude produced, but is not expected to exercise such rights owing to the remoteness of the field to its refinery at Wichita Falls, unless a direct pipe line is later built to the latter point.

The merged properties of Gulf, Cline and Panhandle are practically solid, and extend down to the north bank of the Canadian River. Douglas Oil Company has two oil producing leases on the east flank of the above block, while Phillips Petroleum Company and Pulaski Oil Company interests and Marland Oil Company of Texas hold leases on the north and west sides.

The volume of virtually proven acreage held by Gulf in Carson and Hutchinson Counties assures an ample supply of crude to fill its proposed eight-inch line, which will have a capacity of about 18,000 barrels daily, with variations during cold weather when the Panhandle crude is somewhat difficult to move at low temperatures. Although Gulf's nearest pipe line to the Panhandle district is at Electra, this line is only six-inch, and is operating near capacity in transporting North Texas light crude to the Coast via Fort Worth. The Ranger pipe line system is eight-inch, and current deliveries are down to a point that permits the elimination of all intermediate pump stations between Ranger and Fort Worth, while gravity does the work of moving the crude.

Magnolia and Prairie are expected to be the next major companies to announce for a pipe line extension to the Panhandle, as Magnolia is now erecting field gathering lines to extend from pump station in lower Hutchinson County to a tank farm on the Panhandle & Santa Fe railroad near Kings Mill, Gray County. Prairie has compiled an estimate on the cost of a trunk line extension to the field, and has made no move to act on the project, but will erect field storage shortly. Magnolia and Prairie are expected to accumulate crude storage then go after the oil with a line when sufficient production is available.

### Plains Building Line

The Plains Pipe Line Company is gathering and transporting crude from Hutchinson and Carson Counties to tank car loading rack at Panhandle, Texas, located on the P. & S. F. Railroad, for the account of the Kay County Gas Company (Marland crude buying agency). According to Walter M. Priddy, president of the Plains Pipe Line Company and also the American Refining Company, a six-inch pipe line about 25 miles in length is being laid parallel with the company's present four-inch line at the rate of one mile per day, and a portion of the new line will be in operation next week. This six-inch line begins at a field pump station at Roxana junction on Dixon Creek. The Plains has five 55's in the field about completed, and has placed orders for three additional ones.

Mr. Priddy and other Wichita Falls parties are proposing to construct a community owned pipe line with ten-inch pipe from the field to Wichita Falls, and a conference was held in Fort Worth Tuesday with officials of the Hope Engineering & Supply Company regarding a tentative survey for the route to be taken and estimates on the cost of such a project. It is planned to route the line from Hutchinson County via the north flank of the sunken granite ridge extending to the southeast across the Texas Panhandle into Oklahoma, thence down to Wichita Falls, since the north flank of this buried mountain ridge is furnishing production over a long strip of territory. According to Mr. Priddy, a company is to be organized with common and preferred stock to build the proposed 200-mile 10-inch line, and blocks of this stock will be subscribed by Wichita Falls refining interests, and possibly major companies. The latter would be permitted to move crude from the field to their pipe lines in the Wichita Falls district in proportion to the amount of stock subscribed. The officials of the proposed pipe line company will be composed of representative officers of the companies subscribing to the stock. Such a pipe line project is intended to serve interests that have, or control, production in the Panhandle, but not in sufficient quantities to justify the construction of a private line.

New operations are being started daily in Hutchinson County, and more than 100 active tests will be underway before the close of March, while lease trading continues on a large scale. The McMan Oil & Gas Company purchased a lease consisting of 50 acres in section 5, block "Y", from W. H. Holmes & Currie Bros. for a cash consideration of $50,000, and $12,500 additional in oil. McMan is start-

ing its first test on the Johnson Ranch in section 66, block 46. Herring & McIlroy et al's Smith 1, section 5, was given a shot of 210 quarts in sandy-lime pay at 2789-2858 feet last week and increased the production from 150 barrels on the swab to 60 barrels per hour, but did not hold to this rate during the full 24-hour gauge.

Empire Gas & Fuel Company's H. Heithott 1, located in section 152, I. & G. N. Ry. survey, block 3, Gray County, is preparing to drill deeper in the sandy-lime horizon after swabbing 10 barrels per hour on four hour tests Sunday and Monday from pay at 3165-70 feet with a total depth of 3176 feet. This well is a wildcat in the western part of the county, and encountered the lime at 2430 feet with a surface elevation of 3279 feet. Empire is credited with having spent more than $100,000 for acreage after making the oil strike, and many other companies bought acreage.

A complete report covering all field work underway in the Panhandle is carried in the wildcat report section of this issue.

## Building Tanks for Panhandle

Amarillo, Texas.—Steel storage tanks for caring for the surplus crude production in the Carson-Hutchinson County high gravity oil field are to be erected shortly by Phillips Petroleum Company, Kay County Gas Company (Marland) and Prairie Oil & Gas Company. A tank farm site has been obtained by Phillips in the southeast quarter of section 5, M. & C. survey, block "Y", Hutchinson County, and one 55,000 barrel tank will be built immediately, while others will follow as needed. The Kay County Gas Company is reported to have arranged for six 55,000 barrel tanks to be erected in the southeast quarter of section 11, block "Y", while Prairie is contemplating the erection of several large tanks.

A small pumping well and leases owned by J. W. Wilson et al on the Whittenburg ranch, section 73, H. & T. C. railroad survey, block 46, have been purchased by A. D. Morton et al of Bartlesville, Okla., for a consideration of $280,000, of which $140,000 is cash and the balance out of one-half of the oil produced.

# Humphreys Option on East Texas Block Starts Leasing Boom

Mexia, Texas.—Considerable trading in leases and royalties has followed in the wake of negotiations made by the Humphreys Corporation to take over the wildcat acreage of the J. A. Colliton Interests near Jacksonville, Cherokee County, where high gravity crude was produced in limited quantities two years ago from deep pay level. General lease protection has been held by a number of major companies and independent operators in the vicinity of the wildcat for more than a year, but the prospects of a thorough test being made shortly by the Humphreys Corporation has revived interest, and acreage prices have mounted to $100 per acre for comparatively closein tracts to the drilling block.

Wildcat exploration work was launched by the J. A. Colliton Interests, or Cherokee Oil & Development Company about four years ago on a block of 22,000 acres in virgin territory about 14 miles east of Jacksonville, and the first test was junked and abandoned. The second test located on the Mrs. P. O. Clapp land, R. R. Jowell survey, block 84, set 8¼-inch casing at 2443 feet, and began showing oil in December, 1923, from upper pay level while drilling at 3500 feet. The hole was carried to 4300 feet, and a string of 6⅝-inch casing, with perforated anchor on bottom and packer above, was set on bottom, and the hole bailed dry. The 6-inch casing parted at the 3500-foot level while bailing, and oil broke in from above shortly after the mishap. The hole filled with several hundred feet of 37 gravity oil when bailed daily after the casing parted, and showed very little water. This oil is supposed to have originated from pay level passed up between 2800 and 3500 feet. The hole was later plugged back to 3490 feet without results, and in July, 1925, the hole was plugged back from 3490 to 2800 feet at short intervals, but did not determine the source of the oil. The volume of oil seeping into the hole gradually decreased while the plugging back work was taking place, and the hole was later junked and abandoned. A third test by Colliton et al was drilled on the R. F. Payne land, Section 18, S. F. Ry., survey, near the test that showed oil, but the hole was junked at 3030 feet in December, 1925.

The J. A. Colliton Interests are credited with having spent more than one-quarter of a million dollars in connection with the drilling of three tests in Cherokee County, and a large portion of this fund was derived through the sale of stock, interests, or units in acreage, and by sub-dividing tracts into five, eight and ten-acre leases to Californians. This procedure has greatly reduced the size of the original wildcat block, and title trouble has developed on a number of other tracts, while several of the largest tracts in the block must have oil or gas production by August 6, 1926, else the leases expire. To renew these leases will require a big outlay of money, since the farmers have been striken with the boom fever and are holding for top prices.

The Humphreys Corporation now has an option on the property of the J. A. Colliton Interests, and in all probabilities will close the trade shortly, according to an official of Humphreys. If this deal goes through as planned, the Humphreys Corporation will receive controlling interest in between seven and eight thousands of acres, and agrees to complete a fourth test started recently by Colliton et al. This test is known as the Mrs. P. O. Clapp 3, and is 300 feet due south of the test that showed oil. It had reached a depth of 716 feet when negotiations were opened with the Humphreys Corporation. In the event an oil producer is obtained by this fourth test, the Humphreys Corporation will be forced to conduct a big development program immediately in order to save expiring leases.

Pure, Gulf, Magnolia, Humble, Texas and Republic Production Company bought leases around the Colliton area last summer at prices ranging from $5 to $50, while scores of small companies and individuals also gathered up leases and royalties. These same concerns are increasing their holdings, since a decisive test is practically assured. The quantity and quality of the crude bailed from the discovery test has been accepted as sufficient evidence by responsible companies to warrant the purchase of protection acreage, especially since nothing is known of oil possibilities of this particular section of Texas.

## Champlin Refining Company Buys Producing Properties

Tulsa, Oklahoma.—Producing properties of the Windsor Oil Company of Okmulgee have been added to assets of the Champlin Refining Company of Enid. Money involved and details of the transaction were not made public.

But John B. Jamieson and Robert Jackson, who held controlling interest in the Windsor Company, are to be officially with the Champlin Refining Company.

The transaction gives the Champlin refinery at Enid access to crude oil through ownership. In the past this concern has bought the bulk of its crude oil from producers. It has pipe lines to Garber, Tonkawa and the two Billings fields.

The Windsor Company was organized in 1924, taking over the property developed by Dr. J. J. Deaner and John B. Jamieson in the Deaner pool. Most of this production is in Okfuskee County. Acreage in both Oklahoma and Texas is included in the deal.

# Crude Market Continues Strong Despite Slow Gasoline Movement

## Marland among aggressive contenders for light oil connections in West Texas

*By Kent Ridley,*
*Staff Representative*

UNITED STATES production took an upward turn for the first time in several weeks last week, but the change is apparently the result of a few good completions in several fields, thus temporarily overcoming the natural decline of the older wells. Demand for crude oil is as brisk as ever, although the premium system of securing oil is temporarily discarded because of the unfavorable refined oil market which is restricting the operations of those buyers who ordinarily resort to premium payments to secure their supplies. The real demand for crude is reflected in the activities of the larger purchasers who make concessions other than a cash bonus to secure connections and insure future supplies.

The quiet period in the refinery market which has been occasioned by the lethargic buying of domestic jobbers is further intensified this week as the refiners are gathered at Fort Worth for their annual convention. It is to be anticipated, by comparison of former years, that the gasoline market will pick up following this convention.

Developments in the Mid-Continent gasoline market during the past week were typical of a condition that has prevailed for more than a month in that domestic buyers of motor fuel are restricting their purchases to a minimum. The current movement of domestic gasoline continues below the output, and surplus stocks at the leading refining centers are growing burdensome to the plant owners. Domestic jobbers have been able to limit their buying for the reason that the tail end of winter is a normal off-season for gasoline consumption in the heaviest selling states, but the arrival of more favorable weather will require the replenishment of storage tanks. Prices on U. S. motor gasoline were hovering around the 10 cent level early this week, and quotations amounting to a fraction of a cent under a dime were made by a few refiners seeking relief from stocks of this particular product. Gasoline prices as a whole did not decline during the past seven day period, despite the pressure on the market, and in all probabilities the low mark has been reached. However, the domestic jobbers have not been convinced that the bottom price on gasoline is at hand, else the usual pre-spring buying flurry would be underway.

The explorers were also less active at the close of February, and were not interested in the gasoline market other than to pick up a few odd-lot cars. Three export buyers—Sinclair, Carson and Atlantic—are credited with having placed orders for approximately 1500 cars of 64-66 gravity gasoline with Mid-Continent refiners during February at prices ranging from 12¾ to 13 cents per gallon f.o.b. refinery for delivery within 30 days from purchase date. Besides this spot business, a big volume of the high test gasoline is moving each month to Standard of New Jersey of full year contracts. This latter buyer is now paying .1240 cents f. o. b. North Texas on its contract. Export business has been the mainstay of the Mid-Continent gasoline market for several months, but it may start declining since buying was started about 60 days ahead of time this winter on the strength of the firm position developed by the crude market early last fall and continuing through the winter months.

The crude market in the Mid-Continent has not been impaired by conditions in the refined market, and the soliciting of additional crude by major buying agencies has not been so pronounced in several years. Anticipated production from tests drilling on wildcat blocks as well as those in the proven fields is being sought by the major buyers when drilling commences. Independent refiners are doing likewise in many of the leading manufacturing centers, but the present narrow margin on which plant owners are forced to operate by reason of high priced crude and low priced refined products makes it necessary that big premiums for crude be eliminated.

### Competition for Crude

Competition for crude connections in the light oil districts in Texas is being stimulated by declining production in the older fields, and special inducements are being made to small operators by some of the major buyers by offering fuel, water and pipe at a concession to get a monopoly on future production. Personal influence is being brought to bear in many cases to obtain lease connections, while companies and operators are being asked to reciprocate with crude for special favors granted in the past.

The aggressive manner in which the Marland Oil Company is going after crude contracts among wildcat operators in West Texas, and the Carson-Hutchinson County section of the Texas Panhandle indicates that this concern is shaping its program to become a big buyer of Texas light oil. Marland's crude buying and transportation activities in Texas are now being carried out under the names of the Reagan County Purchasing Company, Kay County Gas Company, and Marland Pipe Line Company. The latter concern has not begun functioning as yet, but the Kay County Gas Company is a buyer of Panhandle crude, while the Reagan County Purchasing holds a lifetime contract on the output of the Big Lake field to the extent of 20,000 barrels maximum daily. The latter concern has unloaded six-inch pipe to build a line from its field storage tanks near the Big Lake field to the World pool in Crockett County, and is soliciting crude for purchase in the latter field. Marland is also seeking crude contracts from wildcat operations now underway in other parts of West Texas.

In both demand and price, the Mid-Continent crude oil market is holding firm.

These opinions are based on the fact that jobbers are not buying freely. Jobbers are no doubt buying for immediate needs only. They are not heeding movements to stimulate buying because of higher crude oil prices and lower production in the older parts of Mid-Continent producing territory.

Meanwhile refiners are determined to build up ample crude oil connections. So the prices on crude oil still reflect the strength that came with the last increase of 25 cents, with the consequent premiums on the higher grades of oil.

To some extent the whole market situation is like that of the corresponding period of 1925. In 1925, however, the price of Navy gasoline was higher, as this product went to around 13 cents early in the year. Prices broke in March.

So far this year the refined market has not broken sharply as it did in 1925. The tendency this year is for lower prices by graduation, rather than by a sharp break.

Crude oil prices in 1925 were strong regardless of gasoline prices in March. That is the condition in the Mid-Continent at present. Crude oil remains firm, while the refined market is only ordinary.

The higher gravities of fuel oils have not yielded to the approach of warmer weather, for prices are still consistent with recent weeks.

## Wrong Depth Given

Los Angeles, Calif.—The Chanslor-Canfield Oil Company's Del Amo No. 45, which was recently completed as a 220 barrel well at Torrance at a total depth of 3340 feet was by mistake given a 2345 foot depth in The OIL WEEKLY. The accurate depth is given here to prevent a possible impression that the company had found a shallow sand in the field.

## Pure Oil Company Has Stock Plan for Employes

Tulsa, Oklahoma.—Employes of the Pure Oil Company in the Tulsa division have subscribed to $300,000 worth of cumulative perferred stock, under the plan outlined by the management, and indications are that the end of the campaign for employe stock ownership March 20, will find $500,000 in subscriptions for the district.

Sale of this stock in the Tulsa division is identical with that for other parts of the country. The Pure Oil Company has worked out a plan of allowing employes to become owners of company stock in response to a demand.

Six months employment makes an employe eligible for subscribing to purchase stock. The subscription must be for a minimum of 5 per cent of the salary the employe will receive during the four years of completing the purchase. The maximum subscription is 25 per cent of total salary for the period.

The plan becomes operative April 1, 1926, and ends April 1, 1930. During that period deductions will be made from salary either monthly or semi-monthly to equal the amount involved in the subscription.

The stock being offered is six per cent cumulative preferred, with a full voting power, par value $100.

During the period of payment the company will allow interest at the rate of 8 per cent on the total subscription, while the rate charged on the unpaid portion of the subscription will be but 6 per cent.

This difference in interest rate and the fact that interest is paid on the total and charged only on its unpaid portion will give an employe $192.50 in interest, if he carries thorugh a $1000 stock purchase.

In addition to this the company agrees to present a bonus of 25 per cent to each employe carrying through a purchase.

## Crane County Wildcat Develops Flow

San Angelo, Texas.—The Independent Oil & Gas Company et al's wildcat test on the Len Taylor land, Crane County, developed a natural flow during the middle of last week after standing several days with hole full of oil from sandy-lime pay at 2038-40 feet, and is making one head of about 125 barrels of 30 gravity crude daily. This well is located near the center of a wildcat drilling block of 1232 acres straddling the Crane-Upton County line, and is owned jointly by Independent, Joe C. Maxwell and L. C. Turman. It was reported last week as having extended the oil producing area on the Hurdle structure approximately six miles to the northwest. An aggressive campaign for leases has developed in the northwest trend from this well, since the production gives promise of being in greater quantities than any strike made to date outside of the Big Lake field in West Texas.

Deeper drilling is to be done on the Plateau Oil Company et al's Union 1, located six miles southeast of the Hurdle discovery well, after showing for a small pumper in regular sandy-lime pay at 2234 feet. Dixie and Independent are each preparing to put their first completions on the Burleson land, near the Hurdle discovery well, on the pump. The former company is starting its second test on the Burleson land.

**Independent Oil & Gas Company's Leonard Taylor 1, H. T. Sapp, survey, Crane County, log:**

| Depth | Formation |
|---|---|
| 0–30 | Lime Shells |
| 150 | Red rock |
| 175 | Red sand |
| 355 | Red rock |
| 365 | White lime |
| 450 | Brown lime Top Salt 450′ |
| 500 | Salt |
| 515 | Lime |
| 1035 | Salt |
| 1045 | Gyp |
| 1115 | Salt |
| 1120 | Red rock |
| 1240 | Salt |
| 1280 | Hard lime |
| 1400 | Red sand |
| 1450 | Lime |
| 1560 | Hard lime |
| 1620 | Broken lime |
| 1635 | Set 10-inch casing |
| 1970 | Reduced to 8¼-inch hole |
| 2005 | Lime (Anhydrite) |
| 2038 | Hard lime (top pay) |
| 2040 | TD in pay |

A good show of gas was encountered early this week in the wildcat test being drilled by the World Oil Company on TP fee land, section 39, T. P. Ry. survey, block 57, Tsp. 2, in sandy-shale at 2925-30 feet. The top of the black lime was encountered at 2850 feet. The Big Bend country in West Texas developed a show of light oil last week when Hadlock & Miller of El Paso drilled into sand at 2015 feet while carrying a hole full of water in their Presidio County. This well is located in section 123, D. P. Railroad survey, block 3, on the Tootle ranch.

Carl Cromwell et al's L. P. Powell 1, located on the east edge of the discovery lease of the World pool, Crockett County, is credited with having pumped 380 barrels duirng the first 18-hour gauge from regular pay at 2651-69 feet. Storage was filled, and the well was shut down after making this showing, which included flush production. However, this well assures a good pumper. Humble's P. J. Sorg 1, located two miles southeast of production in the World field, is standing with 1500 feet oil in the hole after drilling sandy-lime pay at 2651-60 feet.

The California Company has purchased 22,000 acres in four separate leases centering in the H. & T. C. survey, block 2, and S. P. survey, block 12, Sterling County, for a cash consideration of $75,000, and agrees to drill two tests shortly. A location has been made on the J. T. Davis land, center southeast quarter section 288, H. & T. C. survey, block 2.

## May Be Another Prolific Area Near Smackover

El Dorado, Ark.—The Lisbon area, in township 17-16, Union County, is in the spot-light position among Arkansas oil operators, following the completion of a 400-barrel well drilled by Wingfield and others on the Slaughter property, in section 9. The well is flowing at the rate of 400 barrels of 37-gravity oil per day, and has served to direct attention to the fact that it is possible that a new field of major importance has been discovered near the El Dorado and Smackover fields. Daily production from the Lisbon district is now in excess of 900 barrels of light oil per day.

The Rovenger Oil Corporation also brought in a small flowing well last week on its Goodwin lease, in section 16-17-16. It was completed in eighteen feet of broken sand at a total depth of 2,108 feet; and is flowing by heads at the rate of approximately 40 barrels of oil per day.

## R. N. Atmore Opens Office And Warehouse in Tulsa

Tulsa, Oklahoma.—Offices and warehouse have been opened at 20 South Madison in Tulsa by Robert N. Atmore, sales agent for the Fetty long stroke pumping attachment and sole Eastern representative of fluid packed pumps manufactured by the Southern California Fishing Tool Company of Santa Fe Springs, California.

Complete stocks are carried by Mr. Atmore in Tulsa, Smackover, Shreveport, Houston, Corsicana, Ponca City, Okmulgee and Casper, Wyoming. The Robert J. Miller Company of Houston are exclusive agents in Texas for fluid packed pumps and Love and Shaw are exclusive agents in Arkansas, Louisiana and Southern Oklahoma. These men formerly were in charge of production of Wirt Franklin at Healdton, Oklahoma.

Mr. Atmore is specializing on production equipment and is well known both to the trade in the Mid-Continent and Rocky Mountain fields and in California as well.

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**P. W. Smith** of the Multi-Cutr Rotary Bit Company, headquarters in Kansas City, spent several days in Houston during the early part of this week.

# Bill Would Legalize Control of Price by Manufacturer

## Manufacturers of patented oil equipment favoring Capper-Kelly measure

A MEASURE that seeks to clarify existing law and to insure the right of manufacturers of patented products for use in the petroleum and other industries in this country has been prepared for submission to Congress during the present session. This bill is being sponsored by Senators Capper of Kansas and Congressman Kelly and has been designated as the Capper-Kelly bill (H. R. H.)

Virtually all trade associations in the United States as well as manufacturers' organizations are supporting the measure which has for its purpose the establishing of the rights of the manufacturer to negotiate agreements with jobbers in the various industries as well as retailers for the maintaining of a specified resale price on any trade-marked article. This measure is calculated to preserve and protect the "good will" of such articles insofar as legally possible.

The Capper-Kelly bill would insure a fair resale price being placed on the patented article which would work both to the advantage of the seller and the buyer, the former being protected against unfair competition and the latter being given the assurance of purchasing the genuine article without having to pay an excessive profit.

Manufacturers of oil country specialties are particularly interested in this bill and are working together for the successful passage of it through congress.

The proposed measure is as follows:

### Text of Bill

"A Bill to clarify the law, to promote equality thereunder, to encourage competition in production and quality, to prevent injury to good will, and to protect trade-mark owners, distributors and the public against injurious and uneconomic practices in the distribution of articles of standard quality under a distinguishing trade-mark, name or brand.

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That in contracts relating to the sale or resale of an article of commerce, the genuineness of which is attested by the trade-mark or special brand of any grower, producer, manufacturer or other trade-mark proprietor, who is in fair and open competition, actual or potential, with other growers, producers, manufacturers or owners of similar or competing articles, which contracts are made by the owner of such articles, hereinafter referred to as the vendor, which wholesale or retail dealers, hereinafter referred to as vendees, whenever such contracts constitute transactions of commerce among the several states, or with foreign nations, or with or in any district or territory subject to the jurisdiction of the United States, it shall be lawful for such vendees to agree to sell such articles at the prices prescribed by such vendor and such agreements shall not be construed as against public policy or in restraint of trade or in violation of the Act of Congress of July 2, 1890, or of any of the Acts supplemental thereto: Provided:

"(a) That any such article may be sold by the vendee at a price other than that prescribed by the vendor: (1) if such vendee shall in good faith discontinue dealing in such article, or (2) if such vendee shall cease to do business and shall propose to sell such article in the course of discontinuance of such business, or (3) if such vendee shall have become bankrupt or a receiver shall have been appointed for his business: Provided, That such article shall have first been offered to such vendor by such vendee or his trustee in bankruptcy or receiver at the price paid therefor by such vendee, and that such vendor, after reasonable opportunity to inspect such article, shall have refused or neglected to accept such offer.

"(b) That any such article which shall have become damaged or deteriorated in quality, may be sold by such vendee at a price other than that prescribed by such vendor: Provided, (1) That such article shall have been offered to the vendor either in exchange for a new article of the same kind, or at a price paid therefor by such vendee, and (2) That such vendor after reasonable opportunity to inspect such article, shall have refused or neglected to accept such offer, and (3) That such article shall be sold by such vendee only with prominent notice to the public that the price of such article has been reduced because it is damaged or deteriorated in quality, as the fact may be."

### Approved by Business

Regarding this bill, Representative Kelly said:

"The form of the new measure, as introduced by myself in the House and by Senator Capper in the Senate, is the result of many months' deliberation and conferences with committees of the American Fair Trade League, the National Chamber of Commerce and many other national organizations and I am assured it will have the undivided support of all friends of this reform.

"Since 1911 the courts through their interpretation of the so-called anti-trust laws have gradually created a situation which is increasingly obstructing and preventing the economic and orderly distribution of identified merchandise by business men of the country who have neither purpose nor ability to constitute a monopoly.

"As a result of such interpretations," Mr. Kelly continued, "merchants and manufacturers have, against their will, been driven to a state of ruthless, uneconomic and wasteful methods of distribution, which have resulted in vast damage and loss to all branches of our trade and commerce, enhancing the costs of distribution and creating a situation not paralleled in any other civilized country.

"The purpose of this legislation is to permit any producer of identified merchandise—that is, trade-marked or branded merchandise—who is in fair and open competition with other producers of similar or competing merchandise, to enter into enforceable contracts which shall protect the public against the use of his advertising, good-will and reputation as cut-price bait, and also to assure a living profit to his distributors.

"The purpose of this legislation is to restore freedom of contract, which was the unchallenged right in this country prior to the so-called Dr. Miles decision of the Supreme Court in 1911, and is today recognized in every other civilized country on earth. It will assure a square deal for business and the public."

Manufacturers of patented oil country equipment and other products interested in the passage of the Capper-Kelly bill are communicating with their representatives in Congress, urging support of the passage of the bill.

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**W. C. Brower,** manager of the crude department of the Vacuum Oil Company in New York, was in Houston last week visiting the Vacuum production headquarter offices in this section.

## Boling to Have Special S. P. Train Daily From Houston

Houston, Texas.—Due to boom drilling steadily increasing in the Boling field, Wharton County, the Southern Pacific Lines has put on a special train to operate out of Houston, making a round-trip to the field every day except Sunday, effective Monday, March 8. The train will leave Houston at 7:15 a. m., arrive at Boling at 9:50, leave Boling at 4:25 p. m. and arrive in Houston at 10:45 o'clock.

The new Southern Pacific service to Boling is the result of a great demand for more direct and faster transportation to the rapidly growing field. The special train will be operated as long as patronage justifies it, according to officials of the company. Heretofore a trip to Boling field from Houston has required practically two full days on account of changes and slow connections.

## Final Audit of Red River Lease Operations

Washington, D. C.—Final audit of the government's operations in the Red River oil field will show $1,908,756.66 to be distributed among 11 claimants, it is shown by a report just issued by the Secretary of the Interior.

The report shows that receipts amounted to $3,238,062.49, of which $1,324,305.83 accrues to the United States as royalties on production, income earned on royalty and credit balance of wells adjudged the property of the government, with $5000 reserved to meet such claims as are still pending.

Hearings were held last fall on claims for leases and impounded funds. Eighteen applicants were awarded leases, but only 11 contained producing wells which entitled the claimants to share in the amount to be distributed.

The liability of the government for payment of these claims has been certified to the comptroller general for approval, after which distribution will be made as follows:

Lone Star Refining Company, Kansas City; balance of impounded funds from two wells, $250,145.59.

General Oil Company, Houston; balance of impounled funds from two wells, $317,706.90.

Southwest Petroleum Company, Wichita Falls; balance of impounded funds from two wells, $96,650.48.

Buckeye Petroleum Company, Wichita Falls; balance of impounded funds from one well, $24,992.96.

W. F. Corts Drilling Company, Columbus, Ohio; balance of impounded funds from one well, $51,265.50.

Pacific Wyoming Oil Company, Denver; balance of impounded funds from one well, $19,790.58.

A. E. Pearson, et al, Oklahoma City, balance of impounded funds from two wells, $171,015.03.

Delta Oil Company, Wichita Falls; balance of impounded funds from two wells, $52,391.22.

Tom Testerman, Oklahoma City; balance of impounded funds from one well, $107,605.36.

Melish Consolidated Placer Oil Mining Association, Oklahoma City,; balance of impounded funds from one well, $52,751.32.

Burke Divide Oil Company, Terre Haute; balance of impounded funds from 10 wells, $764,441.72.

In making the awards the secretary found that no equitable claims existed on 531 acres of Red River upon which were located 10 wells with the result that they were adjudged the property of the government. The report shows that the balance from these wells amounted to $458,185.95, which will be turned into the federal treasury.

Operation of the field by the interior department ceased on December 1, 1925, when the property was turned over to the lessees awarded leases and permits. As soon as the financial statement of operation is audited and approved by the comptroller general, payments of the amounts to the various claimants will be certified and paid.

## Hinderliter Tool Opens Panhandle, Texas, Store

Tulsa, Okla.—The Hinderliter Tool Company with general offices and works in Tulsa and branches throughout Oklahoma and Kansas has opened a branch store at Panhandle, Texas, in charge of Bob McKay. Chas. A. Hinderliter has supervision over the Panhandle territory as district manager for Hinderliter Tool.

A complete stock of fishing and drilling tools is carried at the Panhandle store. This marks the entrance of the Hinderliter Tool Company into Texas.

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**C. W. A. Remschel**, sales engineer of the Western Machine Company of Los Angeles, has completed a tour of the oil country east of the Rocky Mountains that included Tulsa and other points in the Mid-Continent field.

## Piedras Pintas Discovery Well Stages Comeback

Houston, Texas.—Renewed interest is centering around Piedras Pintas dome, Duval County, with the sudden comeback of Humble Oil & Refining Company's Walsh No. 4 last week to a 1400-barrel yield. This output from a combination of pumping and flowing represents an increase from 600 barrels which the well started producing early in February when put on the pump.

Walsh No. 4 is the discovery well of the deep sands on the flanks of the dome, which was completed December 16 for an initial flow of 1000 barrels and increased its flow to 3000 barrels. Hopes of a substantial field around this dome were temporarily weakened when the well stopped flowing 20 days after coming in. The oil is 42 gravity.

Results of activity at Piedras Pintas are due to give a better idea soon of the worth of close-in acreage to the dome. Though Humble is holder of the choice acreage surrounding the discovery well, many companies are in the play of development.

Walsh No. 5, located 400 feet south and 100 feet east of No. 4, is drilling at below 3300 feet. Seagraves and Moody's Mesquite No. 1, 500 feet west of the Walsh No. 4, drilling on a 10-acre tract surrounded by Humble's lease, is drilling at 2800 feet in blue gumbo. More than a mile to the north, in section 145, Grayburg Oil Company is waiting on equipment for a water well to continue drilling its Halff No. 1, spudded recently. In section 32, survey 185, northwest of the discovery well, Magnolia is starting its first test.

The Humble's discovery at Piedras Pintas dome has led to activity around the Palanganas dome, five miles to the north. Humble's Schallert No. 4 was at the opening of this week drilling at 2200 feet on the west flank of the dome. H. A. Speer is rigging his No. 1 on the Singer tract 1500 feet east of the northwest corner of Survey 12. The Simms Oil Company last week took over the National Oil Company's 1000 acres on Palangana dome and is reported starting a test immediately.

## Salt Creek Producer Good for 9,000 Barrels

Casper, Wyo.—The Midwest Refining Company's Lakota sand well, which was recently completed on the southeast quarter of section 23-40-79 is such an exceptional producer that it is regarded as the most important development in the Salt Creek field since the first Lakota sand producer was completed as a 6,000 barrel well. This latest well, which will produce more than 9,000 barrels daily if allowed to flow at its maximum capacity, is pinched in, making 7,000 barrels of oil with no water showing. The development of the Lakota sand in Salt Creek has disclosed some very interesting facts. The wells from this sand are not as uniform as from the shallower formations. Large producers have been completed adjoining small ones. The greater number of the first wells drilled to the Lakota sand came in with an initial production of from 3,000 to 6,000 barrels daily. Then there was a gradual decline in gas pressure. Some of the Lakota wells recently completed flowed little if any. The producing area, it offers will be comparatively small.

After completing a 3,000,000 cubic foot gas well on Pine Mountain, a syndicate of Casper men has been denied the right to further develop the lease, due to a suit filed by the Alaska Development Company, which claims to hold a government permit to the land in question.

# U. S. Production Shows Substantial Drop During February

## Initial of new wells greater despite fewer completions; all districts contribute losses

*By A. R. McTee*
*Staff Representative*

DECLINING production and weakened field activity predominated in the United States for the month of February. The output of oil from all fields dropped 64,600 barrels daily, resulting in a comparative total of 1,953,400 barrels less recovery in February than was shown for the previous month. A corresponding let-up is seen in the number of wells drilled. Net completions for the month reached 1695 wells, 364 less than were drilled in January.

Total production for February is only 52,822,800 barrels against 60,486,335 barrels for January. This difference of 7,663,535 barrels does not represent the true decrease, however, for if we figure the rate of decrease in February on a 31-day basis, instead of a 28-day basis, we get the actual decrease for February as compared with January. Allowing the three extra days for February we get the loss of 1,953,400 barrels shown above.

Arkansas contributed the heaviest to the decline, with nearly a million barrels slump in the Smackover heavy district. The balance was distributed over practically all other fields in the country, ranging from a few hundred barrels for the Eastern section, to several thousand barrels in California. Mountain States runs were considerably below the figure for January.

Although producers dropped below the number shown for the first month of the year, initial production was more by 18,995 barrels. This was accounted for by a few big wells in the Kevin-Sunburst district and some fair-sized completions in Southwest Texas and the Gulf Coast.

### Increased Prices

Increased postings that were announced just at the beginning of the month do not seem to have influenced drilling noticeably. Stocks have been drawn on since the beginning of the year, but not in sufficiently large quantities to show reductions of consequence.

Comparing the situation at this time with that a year ago, one finds very little difference. Production is decreasing; the price of crude is above normal, and there are no new pools of importance in sight. That the year could be anything but a profitable one seems out of the question under existing conditions. Yet last year with the same prospects, over-refining weakened the market and kept profits from reaching their maximum. With 1923 and 1924 as object lessons in what can happen from over-production, and 1925 a good example of the results to both the producing and refining branches of the industry from over-stocking with refined products, the entire industry should be able to avoid any such mistakes during 1926.

California was one of the few states that showed any gain in field work for the past month. Only four more wells were drilled in February than in January, but initial yield was up 8,000 barrels. Work in the northeast extension of the Long Beach field doubled during the month. Between 80 and 90 wells are drilling in this locality now, probably one-half of which will be completed within the next two or three weeks. The peak production of this part of the field is not expected to go beyond 125,000 or 130,000 barrels, however, since the wells do not hold up for more than a week. Many new completions are required to offset the consistent decline of producers a few weeks old.

Inglewood and Ventura Avenue fields are quiet. Marland Oil Company's Bixby 1, at Seal Beach, which created excitement among Los Angeles operators a few weeks ago, when it came in for about 500 barrels, has declined to less than half that amount, and is showing about one-fourth water. No plans for further development of the area have been announced by Marland.

### Mountain States

The real effect of winter showed up in Mountain States operations for February. There were 18 less wells completed than in January, but in this section there was also a gain in initial production. Montana reported the biggest loss of any other of the group of Mountain States, with four wells against 18 last month.

Kevin-Sunburst runs dropped below last month's figures, but its initial production from new wells was 10,650 barrels. The Illinois Pipe Line Company and the Ohio Oil Company are increasing their handling facilities in this field, and will probably show a largre recovery within a short time. The two companies have been taking perhaps 40 per cent of their potential output.

In Colorado, the seventh producer for Moffat Dome was completed by the Texas Production Company and the Transcontinental Oil Company.

Much leasing is going on in Utah as a result of the Moab well on the Cane Creek structure. Plans are made to drill another well in the immmediate

**FEBRUARY U. S. PRODUCTION**

Following is the gross estimated production of crude oil in the United States for the month of February as compiled by The OIL WEEKLY:

| State— | Barrels |
|---|---|
| California | 17,010,000 |
| Mountain States | 2,754,500 |
| Eastern States | 2,789,500 |
| Texas | 9,243,610 |
| Oklahoma | 12,011,735 |
| Kansas | 2,777,475 |
| Louisiana | 1,546,720 |
| Arkansas | 4,698,260 |
| Total | 52,822,800 |
| January | 60,486,335 |

**PAST TWELVE MONTHS**

The record for the past twelve months is an interesting study for comparison purposes, the following table giving field statistics for all states in the Union.

| Month— | Completions | Producers | Gas Wells | Failures | Initial Prod. |
|---|---|---|---|---|---|
| February 1925 | 1,627 | 1,011 | 190 | 426 | 247,886 |
| March | 1,637 | 1,053 | 189 | 395 | 242,718 |
| April | 1,972 | 1,284 | 183 | 505 | 460,063 |
| May | 2,639 | 1,777 | 218 | 644 | 763,802 |
| June | 2,323 | 1,583 | 177 | 563 | 669,048 |
| July | 2,728 | 1,818 | 259 | 651 | 483,764 |
| August | 2,198 | 1,388 | 202 | 608 | 305,170 |
| September | 2,134 | 1,356 | 206 | 572 | 276,081 |
| October | 2,516 | 1,595 | 248 | 673 | 268,085 |
| November | 1,863 | 1,054 | 248 | 561 | 179,246 |
| December | 2,007 | 1,179 | 237 | 591 | 232,669 |
| January, 1926 | 2,059 | 1,216 | 257 | 586 | 178,963 |
| February | 1,695 | 989 | 197 | 509 | 197,958 |

**UNITED STATES FIELD STATISTICS**

Following are the completions showing producers, gas well, failures, and initial production of crude by states for the month of February, as compiled by The OIL WEEKLY:

| | | | | | |
|---|---|---|---|---|---|
| California | 60 | 60 | .. | .. | 30,612 |
| Oklahoma | 351 | 178 | 35 | 138 | 57,507 |
| Kansas | 106 | 55 | 1 | 50 | 5,621 |
| Kentucky | 91 | 71 | 8 | 12 | 762 |
| Mountain States | 37 | 33 | 1 | 3 | 22,656 |
| New York | 17 | 16 | 1 | .. | 90 |
| Ohio | 136 | 73 | 31 | 32 | 1,589 |
| Pennsylvania | 111 | 81 | 21 | 9 | 886 |
| Tennessee | 5 | 1 | .. | 4 | 600 |
| West Virginia | 139 | 39 | 68 | 32 | 496 |
| Louisiana | 59 | 37 | 5 | 17 | 6,025 |
| Illinois | 15 | 9 | 2 | 4 | 500 |
| Indiana | 9 | 5 | 1 | 3 | 160 |
| Arkansas | 87 | 51 | 8 | 28 | 5,540 |
| Texas | 472 | 280 | 15 | 177 | 64,914 |
| Totals | 1,695 | 989 | 197 | 509 | 197,958 |

vicinity as soon as materials can be assembled.

### Gulf Coast

New development in the Texas Gulf Coast was confined principally to the Boling field in Wharton County. New wells are being completed in this area every week and the output is now between 6500 and 7000 barrels. All the oil discovered so far is light, with a gasoline content similar to that of Mid-Continent crude.

Roxana Petroleum Corporation found a good oil sand at 550 feet in a test that company is drilling near Brazoria. The hole filled 300 feet with oil, but would not flow. The test is being deepened. Location for this well was made with the torsion balance, and the discovery of oil is cited as proof in favor of the instrument.

A 700-barrel well in Medina County, and a producer good for 5000 barrels in Duval County were the outstanding developments in Southwest Texas. Luling reported a 6000-barrel producer.

Completions in the light crude district in North and Central West Texas were on the increase during the short month of February, and a steady gain in new field work was registered by most of the fields as a result of better crude prices being posted at the opening of the month. Completions are showing a comparatively small initial production in practically all the fields, and the output of the new wells is doing little more than offsetting the natural decline of older producers.

### Texas Panhandle

The Panhandle district of Texas developed field work and trading activity in major proportions during February, due to many leading producers in the Mid-Continent being attracted to the Hutchinson County section of the Panhandle by its great scope of virtually proven territory for high gravity crude production. Crude buying agencies were likewise drawn to the Panhandle by the prospects of a large volume of flush oil at prices considerably below the usual Mid-Continent gravity scale. The producing area as it now stands in Hutchinson County has not been widened to an appreciable extent within the past several years, but inside drilling between widely scattered wildcat producers lately has brought the magnitude of this field into the spotlight, and the big play has followed. High lease prices and limited amounts of acreage on the market in Hutchinson County, have caused the late comers to make their lease plays in Moore and Gray Counties. The Texas Panhandle is scheduled to register steady production gains over the next few months.

Inside drilling and the discovery of new pools lying just beyond defined oil areas in Archer and Wichita Counties afforded considerable new field work in the two counties during February. Wilbarger County is receiving most of its new production in the Noble-Dyson field, where a number of separate oil and sandy-lime pay horizons have been established. Young County's shallow sand pay in the north end offers very little proven acreage for drilling, and a high percentage of dry holes are being reported each month by reason of intensive wildcat work. This wildcat drilling began lagging towards the close of February, however, because of the great number of dry holes scored without a single oil strike.

### Gain in Field Work

Brown, Coleman, Callahan and Shackelford Counties are recording gains in the volume of field work, and the latter county furnished a surprise completion during February with an initial flow of about 1,400 barrels 38 gravity oil from shallow sand at 1242 feet. This big well is located on a large wildcat drilling block owned by Roeser-Pendleton and Marland Oil Company. Stephens and Eastland Counties have been slower in registering increased drilling operations on the strength of higher crude prices and greater crude demand owing to comparatively small initial production gained from the deep pay horizons. However, the natural gasoline manufacturers are encouraging new drilling in these two counties by purchasing offset leases in order to develop new gas production for their plants.

Crockett, Upton and Crane Counties are gradually breaking into the ranks of producing counties in West Texas, and several small oil wells were completed during February in the former two counties, while Crane County scored its first oil producer. The Crane County well has not been completed, but gives promise of being the largest oil producer in West Texas, other than the Big Lake field, and may greatly stimulate lease and drilling activity in the Crane-Upton County area. The Big Lake field is receding in production, and drilling is being confined to inside locations.

The Corsicana-Mexia district in East Central Texas is virtually at a standstill on drilling in the proven area, while wildcat operations are rather limited, with no indications of a new field being uncovered in the near future. The lease play in this district has shifted to the west on present fields in expectation of finding oil in the Trinity sand, which is deeper than present producing horizons. The finding of slight evidence of salt water in the Trinity sand in a well drilled by the City of Ennis, Ellis County, last November has been largely responsible for this interest in the Trinity, but a thorough test of the well late in February developed only mineral water, thereby causing the lease boom around Ennis to literally blow up after big prices had been paid for leases.

### "Town Lot" Play at Urania

Interest in Louisiana centered at Urania where an intensive development campaign is under way. Production is found at shallow depths and the output of wells is sufficiently large to make individual drilling profitable. Consequently work is being carried on by any number of small syndicates and individual operators in a town-lot drilling rush.

At the close of the month production of the field was beyond 3,000 barrels.

Eastern States showed a steady tendency in production for the month, and held field work to about its normal pace.

Oklahoma and Kansas districts of the Mid-Continent are the scene of much drilling, both in the way of wildcat exploration and inside development, and there is no avoiding the fact that new crude is in demand.

Efforts which are clearly directed toward the finding of new production were without success during the past month and, besides the area around the Carter-Fleeger, Richardson well in Kingman County, Kansas, there are no semi-developed discoveries hanging fire which would seem to open new pools of any consequence.

## Foremen's Safety Meetings

Tulsa, Okla.—Foremen's Safety Meetings, under the direction of Ray E. Miller, safety director of the Petroleum Safety Council, will be held in the key cities of the five states in the Mid-Continent field begining March 1st., Mr. Miller announced. The first series of meetings will be held in Kansas and these will be followed by similar meetings in Arkansas, Louisiana, Texas and Oklahoma.

"We believe that the foreman is the keyman through whom we must work in any accident prevention campaign among the employees of the Industry. We are holding these meetings for foremen in the hope that in a general discussion of safety these men can compare notes and secure ideas which they can carry back to the men working under them. Meetings like these have been held in other industries in the east and we want to give them a thorough trial in the Mid-Continent," Mr. Miller stated.

The following schedule of meetings has been completed for Kansas: March 1st, Arkansas City, R. C. Roberts, Roxana Petroleum Co., chairman. March 2nd, El Dorado, Harry Miller, Skelly Oil Co., chairman. March 3rd, Madison, H. W. Hanes, Skelly Oil Co., chairman. March 4th, Eureka, T. E. Elder, Prairie Pipe Line Co., chairman. March 5th, Independence, John Smith, Prairie Oil & Gas Company, chairman. March 6th, Sedan, Fred Chubb, Denman Bros., chairman.

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**A. I. Brainard,** district manager for the Frick-Reid Supply Company, has been elected president of the Beaumont Iron Works, Beaumont, Texas, succeeding L. J. Black, who recently retired. Mr. Black will, however, continue to serve the company as chairman of the board of directors.

# Summary of Field Operations for February

## Eastern States

| State— | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Pennsylvania | 111 | 81 | 21 | 9 | 886 |
| West Virginia | 139 | 39 | 68 | 32 | 496 |
| Kentucky | 91 | 71 | 8 | 12 | 762 |
| New York | 17 | 16 | 1 | .. | 90 |
| Ohio | 136 | 73 | 31 | 32 | 1,589 |
| Indiana | 9 | 5 | 1 | 3 | 160 |
| Illinois | 15 | 9 | 2 | 4 | 500 |
| Tennessee | 5 | 1 | .. | 4 | 600 |
| Total | 523 | 295 | 132 | 96 | 5,083 |

### KENTUCKY

| County— | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Allen | 6 | 4 | .. | 2 | 13 |
| Barren | 19 | 15 | .. | 4 | 168 |
| Breathitt | 1 | .. | .. | 1 | .... |
| Elliott | 1 | 1 | .. | .. | 10 |
| Estill | 4 | 4 | .. | .. | 17 |
| Floyd | 3 | 1 | 2 | .. | 5 |
| Johnson-McGoffin | 14 | 12 | 1 | 1 | 126 |
| Lawrence-Johnson | 12 | 12 | .. | .. | 75 |
| Lee-Owsley | 3 | 3 | .. | .. | 12 |
| Owensboro | 10 | 5 | 5 | .. | 166 |
| Warren | 9 | 8 | .. | 1 | 113 |
| Wayne | 6 | 5 | .. | 1 | 48 |
| Wolfe | 3 | 1 | .. | 2 | 10 |
| Total | 91 | 71 | 8 | 12 | 762 |

### PENNSYLVANIA

| | | | | | |
|---|---|---|---|---|---|
| Beaver | 1 | .. | .. | 1 | .... |
| Bradford | 62 | 60 | .. | 2 | 190 |
| Butler | 7 | 2 | 3 | 2 | 32 |
| Center-Middle | 4 | 3 | .. | 1 | 13 |
| Clarion | 9 | 5 | 4 | .. | 13 |
| Greene | 18 | 2 | 13 | 3 | 620 |
| Venango | 9 | 9 | .. | .. | 18 |
| Washington | 1 | .. | 1 | .. | .... |
| Totals | 111 | 81 | 21 | 9 | 886 |

### NEW YORK

| | | | | | |
|---|---|---|---|---|---|
| Allegany | 14 | 14 | .. | .. | 57 |
| Bolivar | 2 | 1 | 1 | .. | 7 |
| Richburg | 1 | 1 | .. | .. | 26 |
| Totals | 17 | 16 | 1 | .. | 90 |

### TENNESSEE

| | | | | | |
|---|---|---|---|---|---|
| Clay | 3 | 1 | .. | 2 | 600 |
| Fentress | 2 | .. | .. | 2 | .... |
| Total | 5 | 1 | .. | 4 | 600 |

### WEST VIRGINIA

| | | | | | |
|---|---|---|---|---|---|
| Boone | 9 | 1 | 5 | 3 | 25 |
| Cabell | 1 | .. | 1 | .. | .... |
| Clay | 4 | 3 | 1 | .. | 85 |
| Calhoun | 11 | 1 | 7 | 3 | 7 |
| Doddridge | 7 | 4 | 3 | .. | 47 |
| Gilmer | 9 | 2 | 4 | 3 | 10 |
| Harrison | 3 | .. | 3 | .. | .... |
| Kanawha | 4 | .. | 4 | .. | .... |
| Lewis | 3 | 2 | .. | 1 | 15 |
| Lincoln | 10 | .. | 9 | 1 | .... |
| Logan | 3 | .. | 2 | 1 | .... |
| Marion | 4 | 1 | 1 | 2 | 5 |
| Marshall | 4 | 1 | 2 | 1 | 5 |
| Monongalia | 1 | .. | 1 | .. | .... |
| Pleasants | 7 | 6 | .. | 1 | 41 |
| Putnam | 8 | 4 | 2 | 2 | 48 |
| Ritchie | 23 | 4 | 11 | 8 | 26 |
| Roane | 10 | 2 | 8 | .. | 33 |
| Tyler | 4 | 1 | 1 | 2 | 2 |
| Upsher | 1 | 1 | .. | .. | 75 |
| Wayne | 2 | .. | .. | 2 | .... |
| Wetzel | 6 | 2 | 3 | 1 | 37 |
| Wirt | 1 | .. | .. | 1 | .... |
| Wood | 4 | 4 | .. | .. | 35 |
| Totals | 139 | 39 | 68 | 32 | 496 |

### INDIANA

| | | | | | |
|---|---|---|---|---|---|
| Adams | 1 | .. | .. | 1 | .... |
| Daviess | 1 | 1 | .. | .. | 100 |
| Gibson | 3 | 1 | .. | 2 | 10 |
| Jay | 1 | 1 | .. | .. | 10 |
| Pike | 2 | 2 | .. | .. | 40 |
| Sullivan | 1 | .. | 1 | .. | .... |
| Totals | 9 | 5 | 1 | 3 | 160 |

### ILLINOIS

| County— | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Clark | 1 | 1 | .. | .. | 70 |
| Jasper | 1 | 1 | .. | .. | 1 |
| Wabash | 13 | 7 | 2 | 4 | 429 |
| Totals | 15 | 9 | 2 | 4 | 500 |

### OHIO

| | | | | | |
|---|---|---|---|---|---|
| Allen | 3 | 3 | .. | .. | 80 |
| Ashland | 2 | .. | 2 | .. | .... |
| Athens | 7 | 3 | 1 | 3 | 35 |
| Auglaize | 1 | 1 | .. | .. | 4 |
| Coshocton | 1 | .. | 1 | .. | .... |
| Fairfield | 1 | 1 | .. | .. | 5 |
| Guernsey | 4 | .. | 1 | 3 | .... |
| Hancock | 9 | 9 | .. | .. | 192 |
| Hocking | 10 | 5 | 1 | 4 | 160 |
| Holmes | 11 | 5 | 3 | 3 | 335 |
| Jefferson | 3 | 3 | .. | .. | 7 |
| Knox | 7 | 1 | 5 | 1 | 10 |
| Licking | 11 | 7 | 1 | 3 | 296 |
| Lorain | 4 | .. | 2 | 2 | .... |
| Medina | 2 | 1 | 1 | .. | 5 |
| Mercer | 3 | 3 | .. | .. | 60 |
| Meigs | 2 | 1 | .. | 1 | .... |
| Monroe | 4 | 2 | 1 | 1 | 4 |
| Morgan | 6 | 4 | 2 | .. | 100 |
| Muskingum | 1 | .. | .. | 1 | .... |
| Noble | 4 | 3 | 1 | .. | 12 |
| Ottawa | 4 | 4 | .. | .. | 118 |
| Perry | 6 | 3 | 1 | 2 | 115 |
| Sandusky | 5 | 3 | 2 | .. | 25 |
| Shelby | 4 | 4 | .. | .. | 69 |
| Tuscarawas | 1 | .. | .. | 1 | .... |
| Washington | 15 | 5 | 4 | 6 | 30 |
| Wayne | 3 | .. | 2 | 1 | .... |
| Wood | 2 | 2 | .. | .. | 17 |
| Totals | 136 | 73 | 31 | 32 | 1,589 |

## Mountain States

| State— | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Wyoming | 28 | 26 | 1 | 1 | 10,121 |
| Montana | 4 | 3 | .. | 1 | 10,650 |
| New Mexico | 3 | 3 | .. | .. | 235 |
| Colorado | 2 | 1 | .. | 1 | 1,650 |
| Totals | 37 | 33 | 1 | 3 | 22,656 |

### WYOMING

| Fields— | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Grass Creek | 1 | 1 | .. | .. | 300 |
| Lost Soldier | 2 | 2 | .. | .. | 625 |
| Pine Mountain | 1 | .. | 1 | .. | .... |
| Salt Creek | 23 | 22 | .. | 1 | 8,996 |
| West Salt Creek | 1 | 1 | .. | .. | 200 |
| Totals | 28 | 26 | 1 | 1 | 10,121 |

### MONTANA

| | | | | | |
|---|---|---|---|---|---|
| Kevin-Sunburst | 4 | 3 | .. | 1 | 10,650 |

### NEW MEXICO

| County— | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Eddy County | 3 | 3 | .. | .. | 235 |

### COLORADO

| | | | | | |
|---|---|---|---|---|---|
| Moffatt | 1 | 1 | .. | .. | 1,650 |
| Wellington | 1 | .. | .. | 1 | .... |
| Totals | 2 | 1 | .. | 1 | 1,650 |

## California

| Field— | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Athens-Rosecrans | 4 | 4 | .. | .. | 1,765 |
| Baldwin Hills-Inglewood | 7 | 7 | .. | .. | 6,720 |
| Brea-Richfield | 1 | 1 | .. | .. | 1,350 |
| Elk Hills | 1 | 1 | .. | .. | 125 |
| Huntington Beach | 3 | 3 | .. | .. | 1,313 |
| Long Beach | 36 | 36 | .. | .. | 14,975 |
| Midway | 5 | 5 | .. | .. | 1,139 |
| Montebello | 2 | 2 | .. | .. | 300 |
| Torrance | 3 | 3 | .. | .. | 425 |
| Ventura | 1 | 1 | .. | .. | 2,500 |
| Totals | 60 | 60 | .. | .. | 30,612 |

## Oklahoma Summary

| Field— | Daily Av. | Total |
|---|---|---|
| North Braman | 2,637 | 73,666 |
| South Braman | 8,337 | 233,436 |
| Blackwell | 3,287 | 92,036 |
| Hubbard | 2,175 | 60,900 |
| Thomas | 12,012 | 306,336 |
| Tonkawa | 32,987 | 923,636 |
| Garber | 24,500 | 691,000 |
| Burbank | 34,062 | 863,736 |
| Other Osage | 39,050 | 1,093,400 |
| Watchorn | 2,950 | 82,600 |
| Cushing | 22,612 | 633,136 |
| Yale-Jennings | 11,438 | 320,264 |
| Davenport | 20,437 | 572,233 |
| Bristow-Slick | 31,703 | 877,484 |
| North Okmulgee | 18,575 | 520,100 |
| Lyon-Deaner | 4,300 | 120,400 |
| Stroud | 2,713 | 75,964 |
| Cromwell | 19,875 | 556,500 |
| Papoose | 14,550 | 407,400 |
| Wewoka | 14,312 | 400,736 |
| Duncan District | 7,488 | 211,860 |
| Graham | 9,200 | 257,600 |
| Fox | 3,688 | 102,064 |
| Healdton | 14,962 | 428,936 |
| Hewitt | 12,625 | 353,490 |
| Others | 62,600 | 1,752,800 |
| | | 12,011,735 |

## Kansas Summary

| Field— | Daily Av. | Total |
|---|---|---|
| Florence-Covert | 1,963 | 44,964 |
| Peabody-Elbing | 3,887 | 99,836 |
| Eldorado-Towanda | 14,237 | 398,636 |
| Augusta-Fox Bush | 5,000 | 140,000 |
| Rainbow Bend | 5,062 | 141,736 |
| Russell | 5,363 | 150,164 |
| Others | 64,362 | 1,802,136 |
| | | 2,777,475 |

## Kansas

| County— | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Barton | 1 | .. | .. | 1 | .... |
| Butler | 17 | 9 | .. | 8 | 856 |
| Chase | 6 | 1 | .. | 5 | 60 |
| Clark | 1 | .. | .. | 1 | .... |
| Cowley | 5 | 2 | .. | 3 | 160 |
| Elk | 8 | 4 | 1 | 3 | 145 |
| Ellis | 1 | .. | .. | 1 | .... |
| Greenwood | 51 | 34 | .. | 17 | 3,600 |
| Lyon | 4 | 1 | .. | 3 | 50 |
| Marion | 3 | 1 | .. | 2 | 125 |
| Rice | 1 | 1 | .. | .. | 175 |
| Russell | 2 | 2 | .. | .. | 450 |
| Sumner | 1 | .. | .. | 1 | .... |
| Trego | 2 | .. | .. | 2 | .... |
| Wilson | 1 | .. | .. | 1 | .... |
| Woodson | 2 | .. | .. | 2 | .... |
| Total | 106 | 55 | 1 | 50 | 5,621 |

## Oklahoma

| | | | | | |
|---|---|---|---|---|---|
| Beckham | 1 | .. | .. | 1 | .... |
| Carter | 15 | 10 | 2 | 3 | 725 |
| Caddo | 2 | 1 | .. | 1 | 100 |
| Comanche | 4 | .. | .. | 4 | .... |
| Creek | 41 | 26 | 4 | 11 | 1,715 |
| Garfield | 10 | 8 | .. | 2 | 15,101 |
| Garvin | 3 | .. | 1 | 2 | .... |
| Grady | 6 | .. | 5 | 1 | .... |
| Hughes | 18 | 9 | 1 | 8 | 3,553 |
| Jefferson | 7 | 4 | .. | 3 | 935 |
| Kay | 45 | 16 | 1 | 29 | 11,196 |
| Latimer | 1 | .. | .. | 1 | .... |
| Lincoln | 17 | 16 | .. | 1 | 7,039 |
| Muskogee | 1 | .. | .. | 1 | .... |
| Noble | 4 | 2 | .. | 2 | 70 |
| Okfuskee | 19 | 7 | 2 | 10 | 1,420 |
| Okmulgee | 39 | 17 | 6 | 16 | 2,025 |
| Osage | 36 | 24 | 1 | 11 | 4,417 |
| Pawnee | 14 | 5 | 1 | 8 | 575 |
| Payne | 15 | 10 | 4 | 1 | 1,355 |
| Pontotoc | 4 | .. | 1 | 3 | .... |
| Seminole | 15 | 11 | .. | 4 | 6,720 |
| Stephens | 12 | 4 | 1 | 7 | 190 |
| Tulsa | 14 | 4 | 2 | 8 | 252 |
| Wagoner | 7 | 4 | 2 | 1 | 119 |
| Totals | 351 | 178 | 35 | 138 | 57,507 |

## Arkansas

| Field— | Completions | Producers | Gas Wells | Failures | Initial Prod. | Monthly Prod. |
|---|---|---|---|---|---|---|
| Bradley | 2 | 1 | .. | 1 | 75 | ..... |
| El Dorado | 6 | 1 | .. | 5 | 15 | 209,300 |
| Lisbon Dist. | 6 | 3 | .. | 3 | 110 | ..... |
| Irma | 3 | 3 | .. | .. | 255 | ..... |
| Nevada | .. | .. | .. | .. | .... | 45,780 |
| Smackover | 60 | 42 | 8 | 10 | 5,075 | 4,398,800 |
| Stephens | 1 | 1 | .. | .. | 10 | 44,380 |
| Wildcats | 9 | .. | .. | 9 | .... | ..... |
| Totals | 87 | 51 | 8 | 28 | 5,540 | 4,698,260 |

## Louisiana

### NORTH LOUISIANA

| | | | | | | |
|---|---|---|---|---|---|---|
| Bellevue | 1 | 1 | .. | .. | 3 | 63,980 |
| Caddo | 15 | 14 | .. | 1 | 927 | 306,880 |
| Cotton Valley | 7 | 3 | 1 | 3 | 95 | 229,180 |
| De-Soto-Red River | .. | .. | .. | .. | .... | 108,500 |
| Elm Grove | 1 | 1 | .. | .. | 40 | 16,100 |
| Haynesville | .. | .. | .. | .. | .... | 303,800 |
| Homer | 1 | 1 | .. | .. | 25 | 162,120 |
| Monroe | 3 | .. | 3 | .. | .... | ..... |
| Naborton Dist. | 2 | 1 | 1 | .. | 25 | ..... |
| Urania | 15 | 14 | .. | 1 | 4,835 | 16,100 |
| Others | .. | .. | .. | .. | .... | 63,000 |
| Wildcats | 9 | .. | .. | 9 | .... | ..... |
| Totals | 54 | 35 | 5 | 14 | 5,950 | 1,269,660 |

### LOUISIANA GULF COAST

| | | | | | | |
|---|---|---|---|---|---|---|
| Edgerly | .. | .. | .. | .. | .... | 16,800 |
| Evangeline | 1 | .. | .. | 1 | .... | 29,400 |
| Lockport | 1 | .. | .. | 1 | .... | 47,180 |
| Vinton | 3 | 2 | .. | 1 | 75 | 183,680 |
| Totals | 5 | 2 | .. | 3 | 75 | 277,060 |
| La. Totals | 59 | 37 | 5 | 17 | 6,025 | 1,546,720 |

## Texas

| | | | | | | |
|---|---|---|---|---|---|---|
| N. Texas | 283 | 171 | 2 | 110 | 13,446 | 2,254,940 |
| Central and West Texas | 91 | 43 | 7 | 41 | 5,777 | 1,989,180 |
| E. Cent. Tex. | 4 | .. | .. | 4 | .... | 1,695,400 |
| Gulf Coast | 73 | 51 | .. | 22 | 30,758 | 2,268,740 |
| E. Texas | 1 | .. | 1 | .. | .... | ..... |
| S. W. Texas. | 20 | 15 | 5 | .. | 14,933 | 1,035,350 |
| Totals | 472 | 280 | 15 | 177 | 64,914 | 9,243,610 |

### NORTH TEXAS

| Field— | Barrels |
|---|---|
| Archer County | 852,500 |
| Electra | 455,280 |
| Burburnett | 348,600 |
| Wilbarger | 320,600 |
| Iowa Park and K-M-A | 161,900 |
| Panhandle | 80,080 |
| Petrolia | 11,480 |
| Others | 24,500 |
| Total | 2,254,940 |

### CENTRAL AND WEST TEXAS

| | |
|---|---|
| Reagan County | 836,500 |
| Stephens County | 354,480 |
| Young County | 226,100 |
| Eastland County | 167,580 |
| Callahan | 123,480 |
| Shackelford | 73,980 |
| Desdemona | 56,280 |
| Palo Pinto | 11,200 |
| Others | 139,580 |
| Total | 1,989,180 |

### EAST CENTRAL TEXAS

| | |
|---|---|
| Corsicana-Powell | 901,600 |
| Mexia | 378,000 |
| Wortham | 316,400 |
| Richland | 69,300 |
| Currie | 30,100 |
| Total | 1,695,400 |
| Texas Total | 9,243,610 |

### EAST TEXAS

| Field— | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Marion | .. | .. | .. | .. | .... |
| Waskom | 1 | .. | 1 | .. | .... |
| Panola | .. | .. | .. | .. | .... |
| Totals | 1 | .. | 1 | .. | .... |

### NORTH TEXAS

| | Completions | Producers | Gas Wells | Failures | Intial Prod. |
|---|---|---|---|---|---|
| Archer County | 133 | 84 | .. | 49 | 5,362 |
| Baylor County | 2 | 1 | .. | 1 | 8 |
| Burkburnett | 12 | 8 | .. | 4 | 88 |
| Electra | 31 | 24 | .. | 7 | 800 |
| K-M-A & Iowa Park | 11 | 1 | .. | 10 | 10 |
| Montague County | 5 | 5 | .. | .. | 295 |
| Petrolia-Clay Co. | 1 | .. | .. | 1 | .... |
| Panhandle District | 6 | 5 | .. | 1 | 2,595 |
| S. Vernon District | 39 | 30 | 2 | 7 | *3,448 |
| Throckmorton Co. | 1 | 1 | .. | .. | 130 |
| Young County | 35 | 10 | .. | 25 | 625 |
| Wildcats | 7 | 2 | .. | 5 | 85 |
| Totals | 283 | 171 | 2 | 110 | 13,446 |

*Includes 3,000,000 ft gas.

### CENTRAL WEST TEXAS

| | | | | | |
|---|---|---|---|---|---|
| Big Lake-Reagan Co. | 5 | 5 | .. | .. | 1,845 |
| Brown County | 19 | 12 | 1 | 6 | *1,205 |
| Callahan County | 11 | 4 | .. | 7 | 82 |
| Coleman County | 7 | 1 | .. | 6 | † 125 |
| Crockett County | 1 | 1 | .. | .. | 10 |
| Eastland County | 17 | 6 | 2 | 9 | ‡ 405 |
| Mitchell County | 4 | 3 | .. | 1 | 265 |
| Palo Pinto County | 2 | .. | .. | 2 | .... |
| Shackelford County | 5 | 2 | .. | 3 | 1,030 |
| Stephens County | 17 | 9 | 4 | 4 | § 810 |
| Wildcats | 3 | .. | .. | 3 | .... |
| Totals | 91 | 43 | 7 | 41 | 5,777 |

*Includes 7,000,000 ft gas.
†Includes 5,000,000 ft gas.
‡Includes 13,000,000 ft gas.
§Includes 17,000,000 ft gas.

### EAST CENTRAL TEXAS

| | | | | | |
|---|---|---|---|---|---|
| Corsicana-Powell | .. | .. | .. | .. | .... |
| Currie | .. | .. | .. | .. | .... |
| Mexia | .. | .. | .. | .. | .... |
| Richland | .. | .. | .. | .. | .... |
| Wortham | .. | .. | .. | .. | .... |
| Wildcats | 4 | .. | .. | 4 | .... |
| Totals | 4 | .. | .. | 4 | .... |

### SOUTHWEST TEXAS

| Field— | Completions | Producers | Gas Wells | Failures | Initial Prod. | Monthly Prod. |
|---|---|---|---|---|---|---|
| Luling | 4 | 4 | .. | .. | 7,200 | 579,180 |
| Lytton Sprgs. | .. | .. | .. | .. | .... | 201,600 |
| Medina County | 4 | 4 | .. | .. | 753 | ..... |
| Mirando | 11 | 6 | 5 | .. | 1,980 | 162,400 |
| Duval County | 1 | 1 | .. | .. | 5,000 | ..... |
| Somerset | .. | .. | .. | .. | .... | 66,635 |
| Others | .. | .. | .. | .. | .... | 25,535 |
| Totals | 20 | 15 | 5 | .. | 14,933 | 1,035,350 |

### TEXAS GULF COAST

| | | | | | | |
|---|---|---|---|---|---|---|
| Batson | 9 | 7 | .. | 2 | 1,375 | 30,380 |
| Blue Ridge | 2 | 2 | .. | .. | 450 | 24,080 |
| Boling | 3 | 2 | .. | 1 | 3,200 | 119,420 |
| Damon Md. | .. | .. | .. | .. | .... | 28,280 |
| Goose Creek | 5 | 4 | .. | 1 | 1,145 | 240,800 |
| High Island | 3 | .. | .. | 3 | .... | ..... |
| Hull | 17 | 16 | .. | 1 | 12,580 | 420,560 |
| Humble | 1 | 1 | .. | .. | 2,200 | 133,280 |
| Orange | 9 | 8 | .. | 1 | 7,435 | 376,180 |
| Pierce Jct. | 2 | 1 | .. | 1 | 500 | 35,600 |
| Piedras Pintas | .. | .. | .. | .. | .... | 4,900 |
| Richmond | 1 | 1 | .. | .. | 600 | 26,600 |
| Saratoga | .. | .. | .. | .. | .... | 35,280 |
| Spindletop | 7 | 5 | .. | 2 | 248 | 154,700 |
| So. Liberty | 1 | 1 | .. | .. | 800 | 209,020 |
| Sour Lake | 2 | 2 | .. | .. | 175 | 137,200 |
| W. Columbia | 3 | 1 | .. | 2 | 50 | 255,780 |
| Others | .. | .. | .. | .. | .... | 36,680 |
| Wildcats | 8 | .. | .. | 8 | .... | ..... |
| Totals | 73 | 51 | .. | 22 | 30,758 | 2,268,740 |
| La. Gulf Coast | 5 | 2 | .. | 3 | 75 | 277,060 |
| Grand Total | 78 | 53 | .. | 25 | 30,833 | 2,545,800 |

## Geologists Will Select Permanent Headquarters

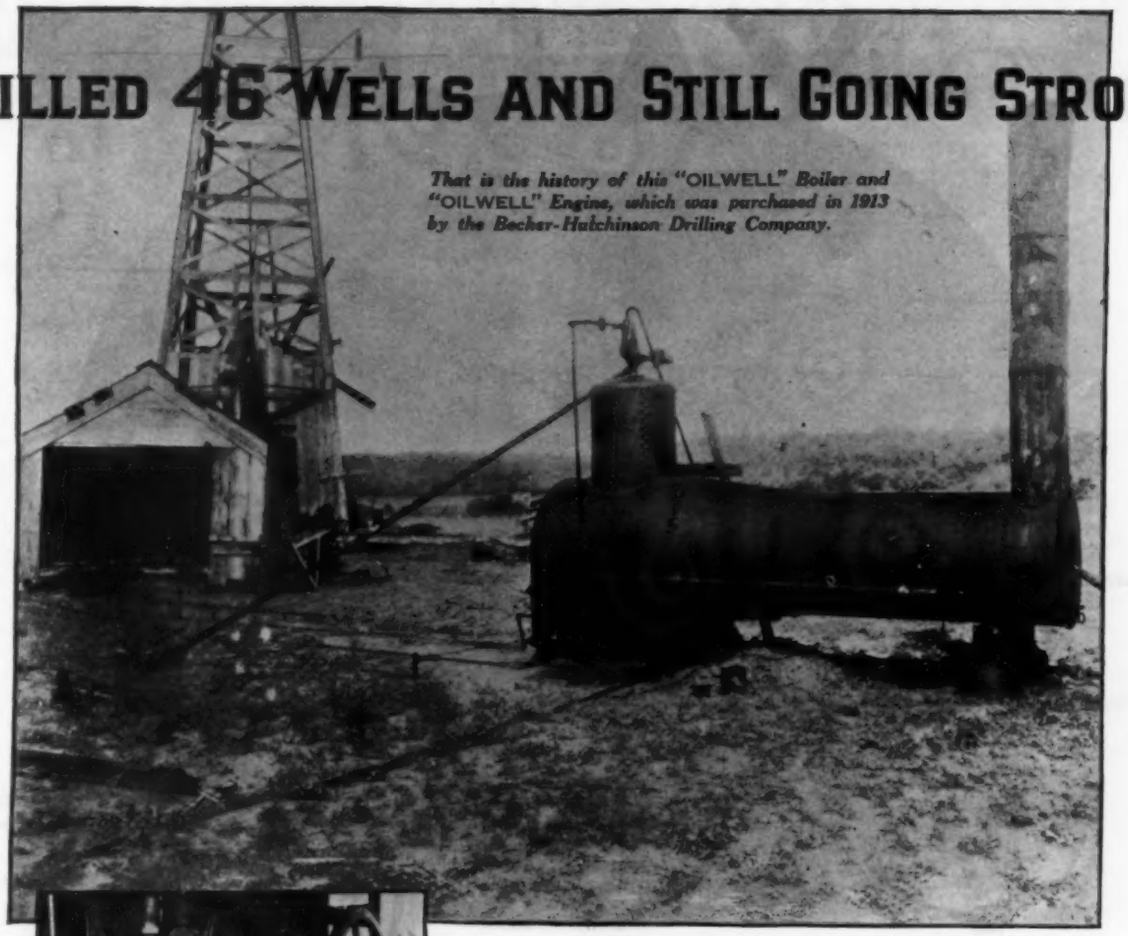
Dallas, Texas.—The three-cornered fight being waged by Denver, Tulsa and Fort Worth for the permanent headquarters of the American Association of Petroleum Geologists is arousing considerable interest in the eleventh annual meeting of the association to be held at the Baker Hotel in Dallas March 25, 26 and 27. The selection of a permanent headquarters and appointment of a full-time paid secretary-editor are to be decided upon by the members at the Dallas meeting, and one of the above three cities will be selected in all probabilities, although several other cities are making a bid for the headquarters.

Officials of the association are taking a neutral stand on the location of the permanent headquarters, but are desirous that a city most accessible to the largest number of members be chosen. A magnificent library is planned for this home of the association, and members will have access to same at all times.

The association members will be guests of the petroleum geologists of Dallas while attending their eleventh annual meeting, and hotel reservations now on file indicate a record attendance. The entertainment and program committees have been at work for several weeks in getting everything in readiness for the convention. The Dallas Petroleum Geologists have established an office on the ground floor of the Baker Hotel, and have engaged the services of decorators to prepare the stage settings for the big show that is to be given after the banquet March 26. This banquet is to be void of any speech making, but the alumni of all universities represented will be permitted to put on a "stunt" in the form of a circus act. Oklahoma, Wisconsin, Texas and Chicago and several other schools have arranged to take part in this circus.

According to R. B. Whitehead, chief geologist for the Atlantic Oil Producing Company, who is chairman of the Dallas Petroleum Geologists and taking an active part in arranging the entertainments, the convention will be called to order at 10:30 o'clock Thursday morning at the Baker Hotel. After lunch the convention will resume at 1 p. m., starting with a short business session which will include the nomination of officers for the ensuing year. A popular subject will be chosen for a lecture Friday evening. Regular sessions will be resumed Friday morning, and will continue until noon. Friday afternoon will be held open for entertainments, such as golf, field trip to the Mexia-Corsicana district, general "get togethers," etc. The annual election of officers will precede the final business session Saturday morning.

# DRILLED 46 WELLS AND STILL GOING STRONG



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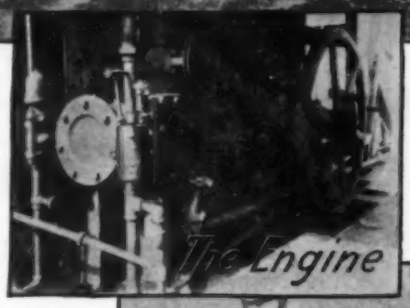


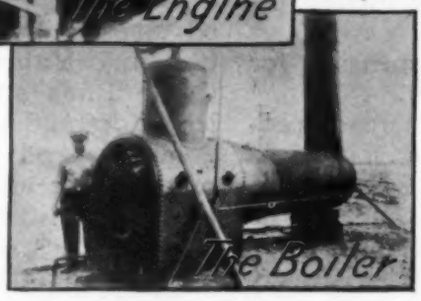


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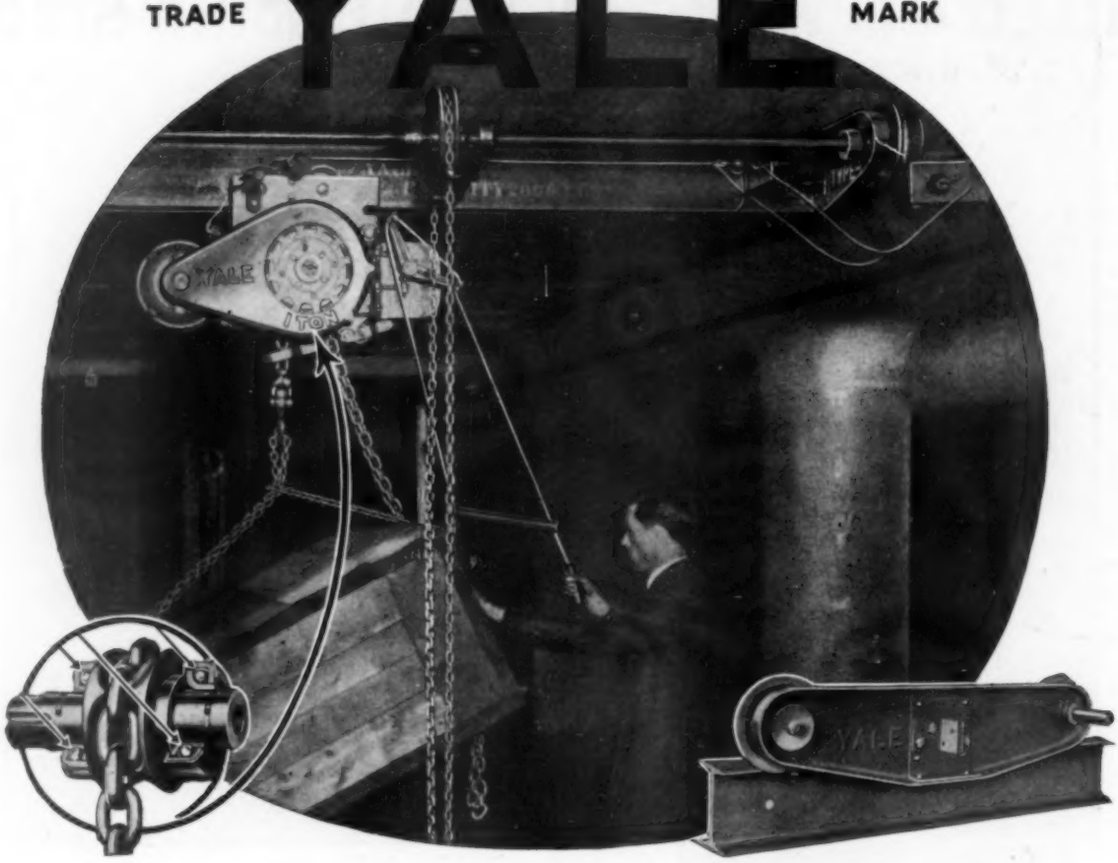


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# Recording Steam Gauge Is Real Aid to Scientific Drilling

## Knowing time given to different operations suggests ways of increasing actual drilling time

*By Eugene L. Davis*
*Engineer, Miley Oil Company*

AMONG the scientific devices recently adapted to increase the efficiency of drilling crews is the recording steam gauge. This instrument and other recording devices have been used in the past as a means of checking up on the drilling crew and making a record of their operations.

If that were all the possible gain to be derived from employing these instruments, they could not hope for and would not merit a very wide field of use. The lowered morale and natural resentment of the men would at least partially offset the benefit derived from a better untilization of their time.

That there is a broader, more praiseworthy use for this device is just beginning to be understood. A study of the recording chart does show definitely how the driller employed his time. But it shows more than that. It shows the amount of time consumed in each operation, and suggests ways of increasing the amount of actual drilling time. It records the steam pressures used under different conditions and, hence the strains imposed on the equipment. This leads to the choice of proper bits and other equipment with a view of lowering depreciation on equipment, and decreasing the consumption of fuel.

The chart also shows any change of formation or condition at the bottom of the hole, and aids in an understanding of the conditions existing there. This leads not only to more intelligent logging on the part of the drillers, but to greater efficiency in drilling. Any accident, such as a twist-off, is not only recorded, but a n idea may be gained from the chart as to why it occurred. The chart shows graphically, for instance, why reaming is such a strain on the drill pipe. This operation is represented as a series of sudden, heavy strains.

### Aid in Logging

With a given bit, each different formation writes its characteristic curve on the chart. For example, the curve made by a shale is in general a series of curves or waves, while that of a sandstone is characterized by relatively sharp-toothed oscillations.

With the idea of increasing efficiency in drilling, the Miley Oil Company recently installed a Foxboro recording steam gauge on a wildcat well in Ventura County, California, where the formations are extremely hard and the drilling consequently expensive. The disc chart was chosen in preference to the strip chart as being more convenient to use where the charts are analyzed daily, as they were in this case, by the resident engineer.

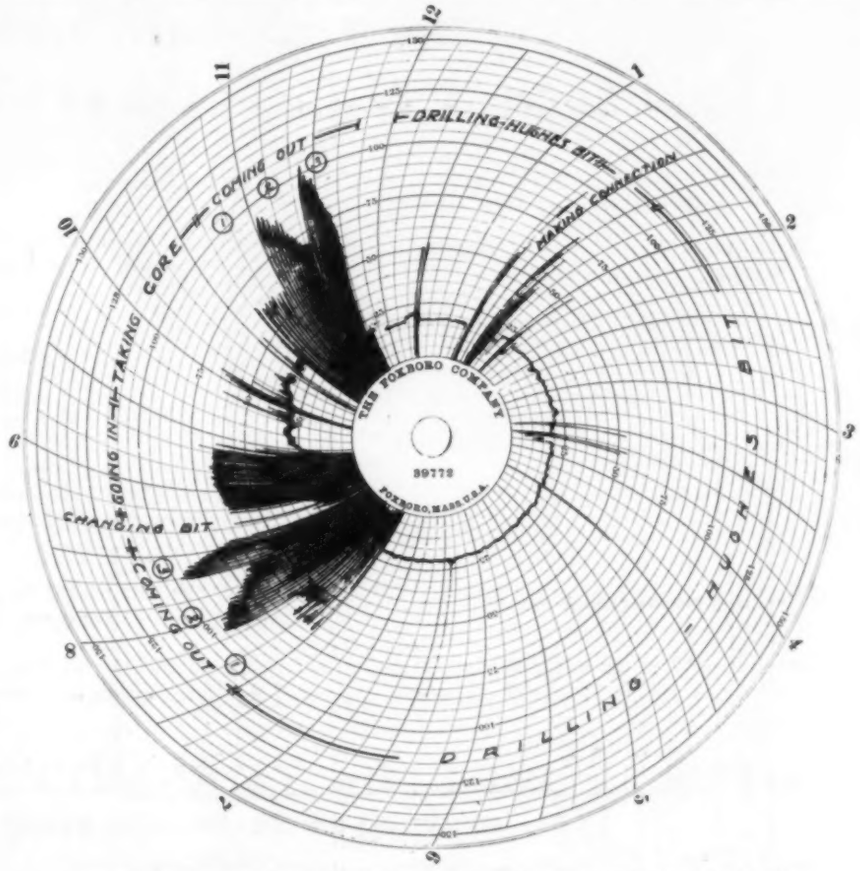
The manner in which the gauge was rigged up is shown in the accompanying diagrammatic sketch. A half-inch pipe was tapped into the steam manifold of the twin engine on the engine side of the throttle valve. This line led outside the engine house, then through a deadening chamber consisting of a short length of four-inch pipe with a drain cock at the bottom. This cock was kept cracked to keep the chamber full of steam by drawing off the water as fast as it condensed. The function of this chamber was to prevent too violent an oscillation of the recording needle and cut down minor fluctuations of pressure such as might be caused, for instance, by a slug of water in the steam. The deadening chamber was connected to the gauge with a one-quarter-inch copper tube. The gauge was supported by a post set in concrete, which was located outside the engine-house after finding that the vibration of the machinery affected the needle inside.

Contrary to general practice in the application of recording gauges before this time, this one was installed to keep the record on an active, intelligent and dependable crew, and not as a watch-dog on a distrusted crew. The result was that the drillers themselves took an extreme interest in the gauge, changed the charts themselves, and studied them. There is no doubt but that they increased their efficiency in so doing.

### Made More Hole

Up to the time of the installation of this device, one of the drillers had been consistently making more hole than either of the other two, and none of them knew why. When the gauge was installed they found that he had been using less weight on the drill stem. This led to experimenting to determine the best weight on the drill, and the amount of steam to use.

In drilling, the Hughes rock bit showed smaller and fewer strains on the engine and hence an all equipment, than any other bit tried. It was adopted for continuous use, and there were no twist-offs after this time. The accompanying chart shows the relatively even strain imposed by this bit compared to the core bit. It should be noted here that the particular




A recording steam gauge record showing how progress charts are being kept by the Miley Oil Company drilling wells

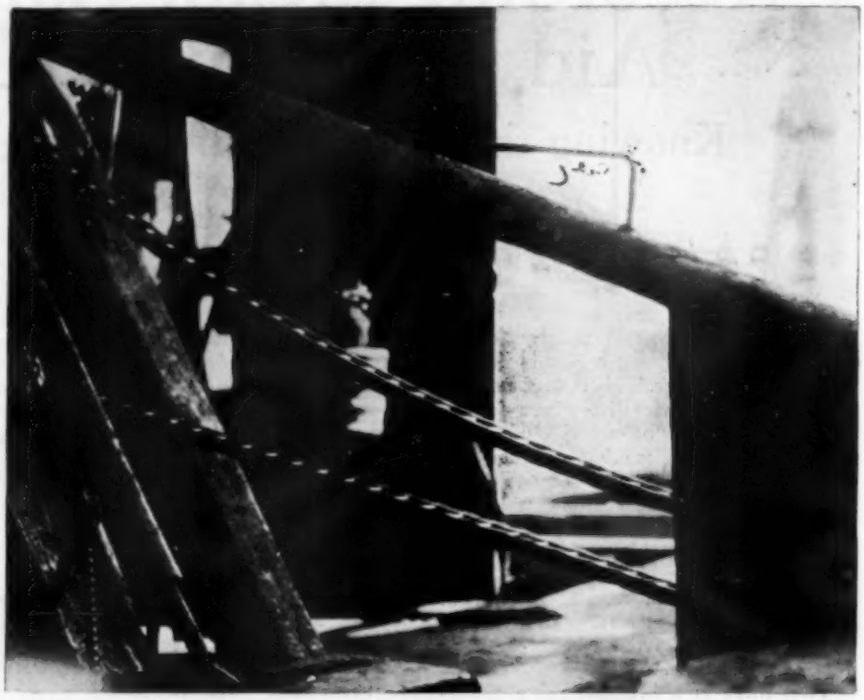
core bit used showed less engine strain than the ordinary fishtail.

It was found that the time required to make connections, that is, add additional joints of drill pipe to the drilling string, was a considerable item. The average time required to make a connection was fifteen minutes, and, with the reaming considered, it was necessary to make an average of three or four connections a day with the 45-foot Kelly, where they could add only one joint of drill pipe at a time. With a 51-foot Kelly they could add two joints of pipe at a time and thus cut the number of necessary connections in half. With a saving of only fifteen minutes a day, this amounts to about seven hours per month. And seven hours at about $10 per hour for the drilling crew, is $70 per month saved by the long Kelly. Consequently it goes without saying that the long Kelly was installed.

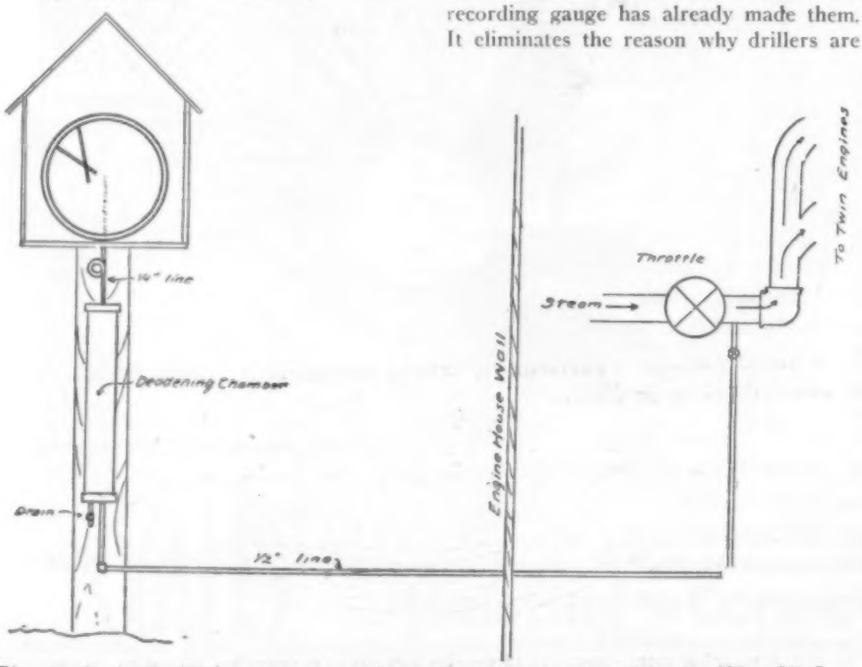
The accompanying chart shows a record of the drilling crew for one afternoon, that is, from noon to midnight. At 12 Noon the driller was in the hole with a Hughes bit, drilling in what was logged as hard sandy shale. Note that the steam pressure at the engines averaged less than twenty pounds. At 1:20 P.M. he added drill pipe to his string, the connection requiring about twenty minutes. He was relieved at 4:00 P.M. by the afternoon driller, with the bit still in hard sandy shale. They started out of the hole at exactly 7:30 with the three-speed rotary in first, or low speed. They changed to second speed after pulling approximately nine stands of drill pipe. At 8:20, after pulling sixteen more stands, they changed to the third speed. Out of the hole at 8:30. Fifteen minutes to take off the Hughes and put on a core bit. Then until 9:30 to go back in. Total time for round trip two hours. The next hour was spent in taking a core in very hard sandy shale, with an Elliott Alco core bit. They started out of the hole at 10:40, were out at 11:40, and changed the chart fifteen minutes too soon.

It is unfortunate that the recording steam gauge, which has great potentialities, should have been introduced to the industry as a watch-dog to check up on distrusted crews. This gauge consequently has a good deal to live down, but it can do it if intelligently applied.

If a driller is honest he can be made to understand that the gauge will not have any tales to tell on him if he does his day's work, and not only that, when he doesn't turn in his regular footage he doesn't have to make any excuses—the recording gauge has already made them. It eliminates the reason why drillers are prone to carry unrecorded footage in the back of the book. It gives the records a new accuracy of engineering value, and results in more dependable logs.



Guard for rotary chain made from discarded casing and boiler plate is inexpensive, durable, portable and effective




Diagramatic sketch showing arrangement of recording steam guage used by the Miley Oil Company on drilling wells. The guage is set outside of the engine house and uses a deadening chamber in order to eliminate vibrations

## Effective Inexpensive Guard for Rotary Chain

One way of providing an effective, durable, cheap, portable guard for the ordinary heavy chain running from the draw works to the rotary has been demonstrated by an operator in the Rosecrans oil field of California.

As is shown in the acocmpanying photograph, a piece of old casing and some discarded boiler plate were used as material for the guard.

The casing was ripped in half with an acetylene torch, longitudinally, and shortened to the length of the distance from the upper cross member of the draw works to a point about six inches beyond the space taken up on the rotary floor by that sprocket on the table drive shaft connecting with the draw works drive shaft by the chain. Two flat pieces of boiler plate, with the bottoms level with the derrick floor and the tops angling downward toward that side of the derrick opposite the draw works, were welded to the casing at the edges cut by the torch when the latter was split.

With the sprocket running between these pieces of boiler plate, a perfect guard was formed. While the casing above the chain has tended to lessen the probability of anything that might drop from above becoming entangled in the working gear of the rotary, it has also had a tendency to check the fall of a man who has lost his balance when trying to stand on a wet, slippery, moving rotary table.

# "NATIONAL" HAMMER-WELD PIPE

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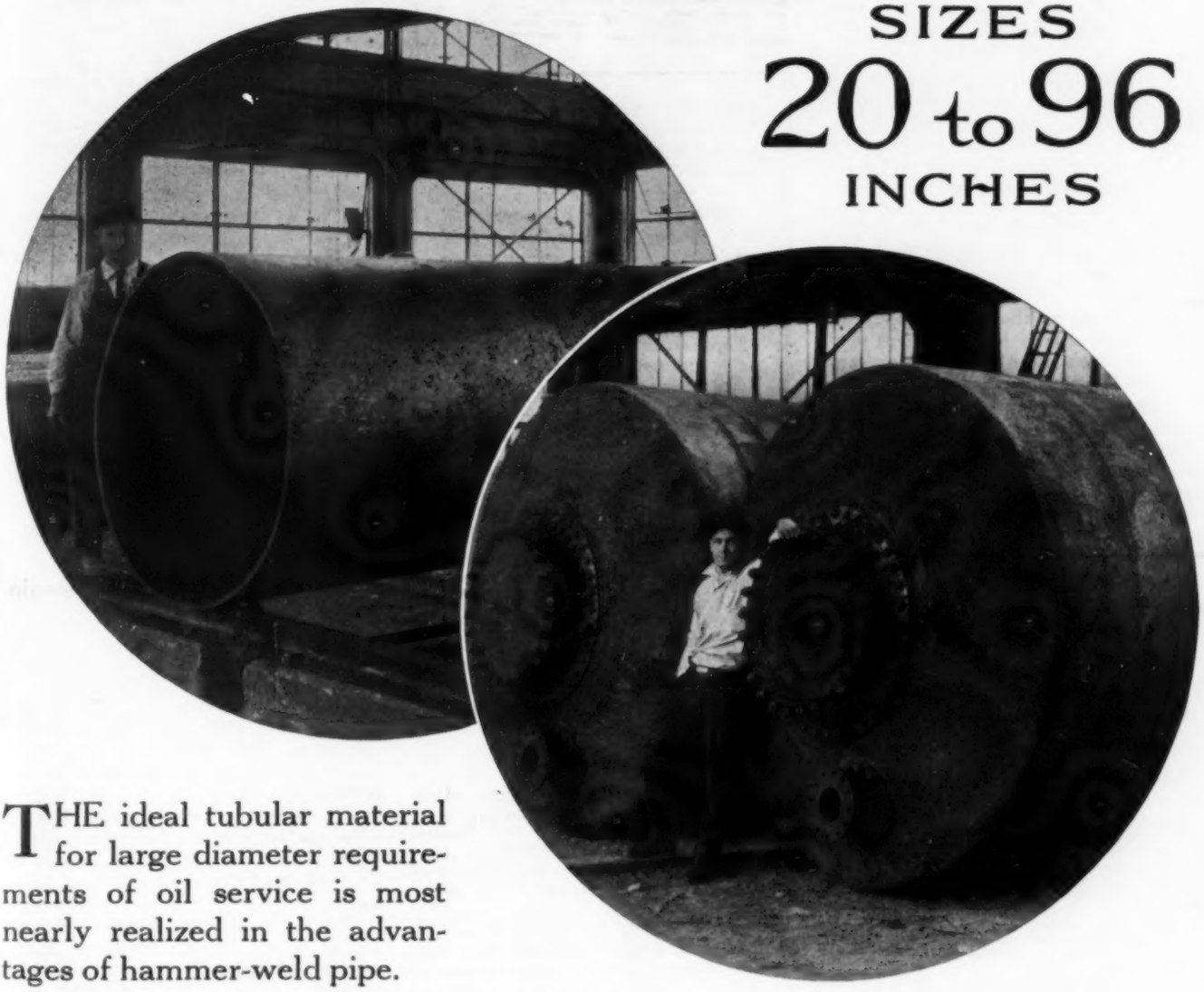

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*Say you saw it in The OIL WEEKLY*

# How Many Two-Legged Derricks Are You Using?

## You probably say none, but is it true? Faulty foundation can cut load rating in half

*By Harry Pennington*

*In the first part of his article dealing with derrick foundations, and published in the February 26th issue of The OIL WEEKLY, Mr. Pennington gave a detailed outline of loads that derricks are subjected to in the various operations of field work. Starting the accompanying article, which concludes the discussion, with a tabulation of weights he goes into the subject of how much load various soils will hold and how foundations should be constructed to meet these varying conditions.*

*—The Editor.*

### Tabulation of Weights

A tabulation of weights is given below, with a classification into the four types of weight loads as distinguished from hook pull load passed down into the foundation, as follows:

Dead load, or the load of stationary parts. The derrick lumber is usually full sized and, when green, can weigh more than four pounds per foot board measure;

Live load, or the load of operating machinery, which is a different class of load from dead load and must be treated in a different manner;

Loads that produce impact, that, due to hoisting and stopping in descent, add considerably more weight passed into the foundation. This includes drill pipe, casing, travelling block, grief stem and all parts that are hoisted.

As before noted, the load due to pull on the hoisting line is an additional load, coming under the head of impact load, which will be treated further.

| | 96 Ft. Derrick | 112 Ft. Derrick | 130 Ft. Derrick |
|---|---|---|---|
| Dead load: | | | |
| Derrick | 38,000 | 48,000 | 75,000 |
| Live load: | | | |
| Draw works | 9,000 | 11,000 | 15,000 |
| Rotary | 7,000 | 9,000 | 11,000 |
| Two drilling pumps | 10,000 | 14,000 | 14,000 |
| Manifold and hose | 650 | 900 | 900 |
| Crown block | 1,900 | 2,100 | 2,600 |
| Tongs, tools, etc. | 5,000 | 6,000 | 6,000 |
| | 33,550 | 43,000 | 49,500 |
| Loads with impact. | | | |
| Pipe and casing: | | | |
| 2500 feet 6-inch with tool joints | 63,000 | | |
| 4000 feet 4-inch with tool joints | | 68,000 | |
| 5000 feet 4-inch with tool joints | | | 80,000 |
| Casing, maximum in one string | 100,000 | 135,000 | 175,000 |
| Equipment: | | | |
| Travelling block | 1,600 | 1,900 | 2,200 |
| Line | 750 | 850 | 1,200 |
| Swivel | 800 | 1,100 | 1,400 |
| Elevators | 400 | 600 | 800 |
| Hook | 450 | 600 | 900 |
| C link | 300 | 400 | 600 |
| Bit, maximum, roller type | 2,500 | 2,500 | 2,500 |
| Drill collar | 250 | 475 | 800 |
| Grief stem | 1,900 | 4,700 | 4,700 |
| | 9,950 | 13,125 | 15,100 |

We have then, as a result of these weights and loads, the following:

| | Rotary Work | | |
|---|---|---|---|
| | 96 Ft. Derrick | 112 Ft. Derrick | 130 Ft. Derrick |
| 1. Dead Load x1 | 38,000 | 48,000 | 75,000 |
| 2. Live Load x2 | 67,000 | 86,000 | 99,000 |
| 3. Load with Impact x4 | 39,600 | 42,400 | 60,400 |
| 4. Load of pulling x1½ | 270,000 | 360,000 | 450,000 |
| Total foundation on load, lb. | 414,600 | 538,400 | 684,400 |
| Total load in tons | 207 | 269 | 342 |

### Water in Foundations

The amount of load that soils will carry depends upon their composition, the degree to which they are confined, and the moisture they contain. Then, as soils on the surface are softer, and less compact than soils below the surface, it follows that we should remove the upper layers to reach a more dense, compact soil.

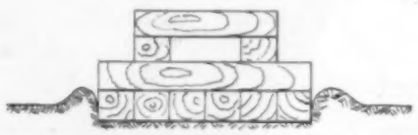


**Fig. 1.—Foundation showing soil displacement due to water or insufficient floating area**

Further, as shown in Figure No. 1, a load will displace soil laterally and, as the bearing soil is confined less in Fig. No. 1 than in Fig. No. 2, digging away of the upper layers adds to the load carrying capacity of soil.

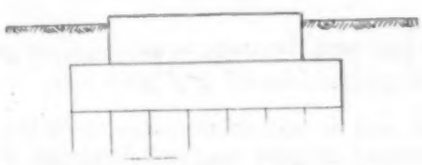


**Fig. 2.—Foundation floating lowered below ground surface to prevent soil displacement**

Again, moisture causes soils to flow more easily particularly clays, and we should therefore excavate until the soil is fairly dry, and then protect the foundation against moisture by covering each one with earth, banking it up with a slope to run water off as shown in Figure No. 3.

Water is the worst enemy of foundations and particularly foundations carrying live loads.

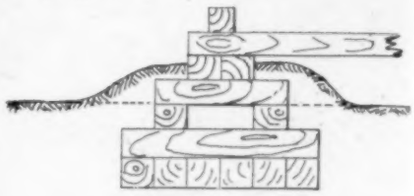


**Fig. 3.—Foundation floating covered with earth to prevent softening from water**

The bearing load capacity of soils, derived from observation, may be taken as follows:

| | Tons per sq. ft. |
|---|---|
| Soft rock | 5 |
| Gravel, not cemented | 1½ |
| Sand, not cemented, dry | 1½ |
| Alluvial soils | ½ |
| Loose sand, wet | ¾ |
| Clay, moderately dry | 1½ |

The soils of the Mid-Continent are relatively firmer than the soils of the Gulf Coastal Plain and the moisture content of Gulf Coast soils is greater than perhaps any of the fields of our country.

The softest of soils, water soaked soils, can support the heaviest loads, if the foundation is spread out enough to limit the load per square foot of foundation.

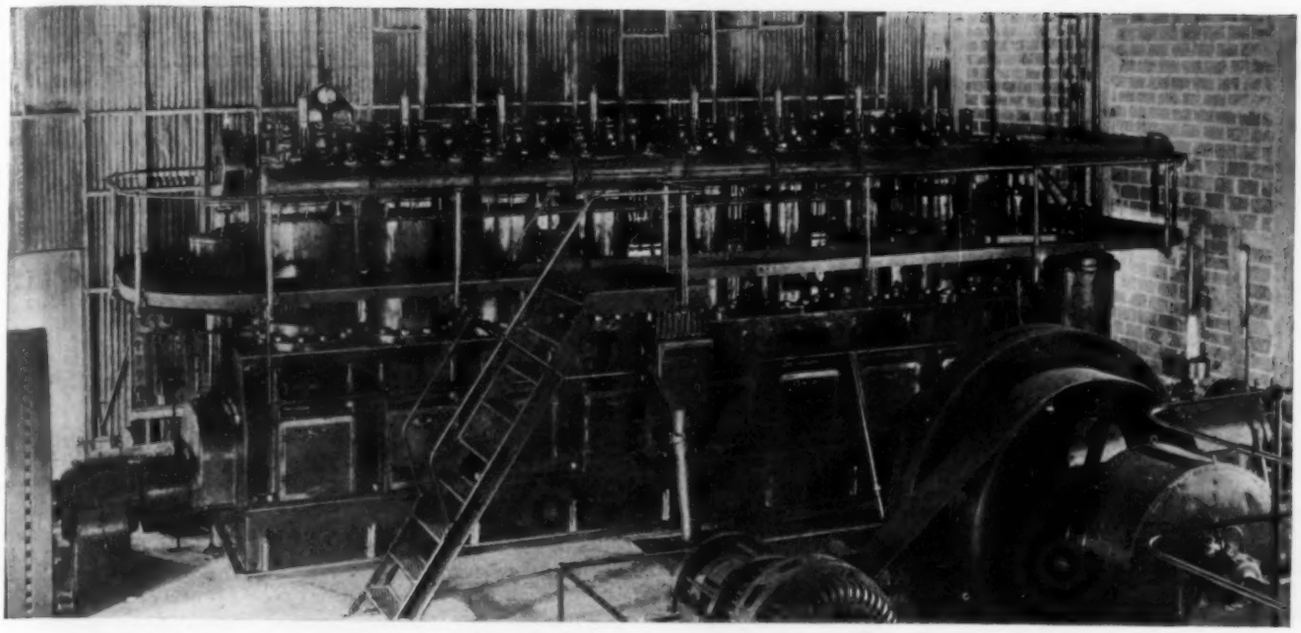
Figure No. 4 shows a spread footing eighty inches square, made of seven inch by sixteen inch timbers, cut eighty inches long giving a bearing area of forty-four square feet under one leg and a total of one hundred and seventy-six square feet under the four legs. In soft soil, this foundation gave satisfactory service, supporting all loads when setting a long string of ten inch casing.

### Soils

Beach sands do not present such difficult foundation problems, although moving water will cause trouble. Sand flows under pressure and water saturated sands flow more easily. But sand, either dry or wet, when prevented from spreading laterally and flowing out from beneath, forms one of the most reliable foundation beds.

A clay foundation is substantial only when kept dry and confined.

Gravel foundation beds are substan-



*800-B. h. p. McIntosh & Seymour Diesel Engine in a Florida plant. Another of the same size is to be installed in the same plant as a result of the very satisfactory performance.*

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A Diesel engine costs more than an equally powerful steam engine or turbine alone, but being self-contained and complete without any other accessories than oil storage tanks, oil transfer and jacket-water circulating pumps, involves almost no additional apparatus cost. The steam prime mover, on the other hand, represents only a third to a fourth of the total steam plant cost.

Any fair comparison must therefore be of one complete plant against the other, including the cost of the building and the value of the land.

On this basis, Diesel power requires only about two-thirds as much building volume, land area and floor space, only one apparatus foundation, no expensive chimney or stack and very much less labor for erection. There are no boilers, coal and ash handling equipment, bulky storage pockets, no draft fans, stokers, feed heaters, independent feed pumps, superheaters, economizers, steam and oil separators, traps, condensers, vacuum and circulating pumps, and no multiplicity of large high-pressure pipes, valves, expansion joints and recording apparatus.

These accessories in a steam plant involve further expense in that, to provide for future growth, most of them must be of sizes in excess of immediate requirements. On the other hand, a Diesel engine need be only large enough for the immediate future. As economy of operation is independent of the size of the unit, another unit can be added when needed. The resulting multiple-unit operation does not increase either the comparative cost of the plant or the horsepower-hour cost of the power output.

Taking all of the foregoing features into consideration, the over-all initial costs and fixed charges generally favor the Diesel plant in capacities up to around 7000 h.p. Even though they did not, the difference in first cost would have to be paid but once, and this the Diesel plant will do in its first year because of its superior operating economies. As for any difference in the other fixed charges, very slight at the most, the SUSTAINED low fuel rate of the Diesel plant in contrast with the gradual impairment of steam units, will far overbalance this in the after years.

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# McINTOSH & SEYMOUR DIESEL ENGINES

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Fig. 4.—Spread footing eighty inches square. Capacity on firm clay sixty-six tons each

tial when prevented from flowing by confining.

Alluvial soils are fairly compressible and form a substantial foundation only when the area is proportioned to reduce the load per square foot to such point as to prevent compression. Gravel, tamped into soft soil, increases its bearing power materially and when the foundation is placed, and filled in, as shown in Figure No. 2, good foundations can be obtained. Also, eight or ten inches of gravel below the base as shown in Figure No. 5 materially increases the bearing capacity of soil. A foundation of this kind must be filled in as shown in the figure to prevent lateral flowage of gravel from below the base.

Figure No. 1 shows a foundation with flowage from below the base, caused by excessive loading of the area of soil; deepening this foundation and spreading it out to cover more area, will both prevent sinking.

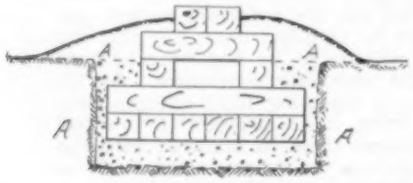



Fig. 5.—Gravel tamped into hole and around floating to secure firmer base

At AAAA of Figure No. 5 the downward pressure of soil resists the lateral pressure set up by flowage tendency from below the base.

Live loads accentuate flowage and, since live loads on derrick foundations are the greatest loads, the greatest

for proportions of column footings under each leg.

In this table, the load of hook pull, and not the weight of pipe, is used, hook pull reaching greater proportions. Under "Area Sq. Ft." is given the required footing area, and under "Ft. Sq." the dimensions next above which will afford the required footing area.

These rating are based upon the foundation being excavated to such depth and tamped that flowage of soil from below the footing will not occur and also upon the soils being maintained as dry as indicated, no rain water or water of drilling being allowed to flow underneath or around the footing.

It will be found that the larger footings designs will necessarily require greater depth.

### Floating Casing

The reduction in weight of pipe submerged in drilling slush is proportionate to the weight of slush to volume of steel in the pipe. One gallon of slush weighing 1.15 times water or 9.20 pounds per gallon lessens the weight of steel submerged in it by the amount of slush the steel displaces. Steel weighs 60 pounds per gallon, and the reduction is therefore 9.20/60ths of 15%, roughly one-seventh. Thus, 28 pound casing weighs 24 pounds when submerged in slush with a specific gravity of 1.15.

Floating casing into the hole lessens the weight of casing as shown in the table below:

| | Pounds per 100 feet |
|---|---|
| 6⅝ inch | 1665 |
| 8¼ inch | 2313 |
| 10 inch | 3927 |
| 11 inch | 4692 |
| 12½ inch | 5743 |
| 13½ inch | 6661 |
| 15½ inch | 8696 |

These figures are based upon clear water and are to be multiplied by the specific gravity of slush. For instance, floating 1,000 feet of 10-inch into a hole with 1.20 slush. The clear water displaced is 39,270 pounds and multiplied by 1.20, the total reduction in load is 47,124. If the pipe weighs 48 pounds per foot, it will almost float, and the load on the derrick is practically nothing.

**Areas and Dimensions of Footings for Each Leg**

| | 52 ton load per leg | | 67 ton load per leg | | 86 ton load per leg | |
|---|---|---|---|---|---|---|
| | Area Sq. Ft. | Ft. Sq. | Area Sq. Ft. | Ft. Sq. | Area Sq. Ft. | Ft. Sq. |
| Soft rock | 11 | 4x 4 | 14 | 4x 4 | 17 | 5x 5 |
| Gravel not cemented | 34 | 6x 6 | 100 | 10x10 | 129 | 12x12 |
| Sand not cemented | 34 | 6x 6 | 100 | 10x10 | 129 | 12x12 |
| Alluvial soils | 104 | 11x11 | 134 | 12x12 | 172 | 14x14 |
| Loose sand, wet | 68 | 9x 9 | 92 | 10x10 | 116 | 11x11 |
| Clay, moderately dry | 34 | 6x 6 | 100 | 10x10 | 129 | 12x12 |

case of failure of derrick foundations is flowage.

Excavating to prevent flowage also reaches soils of less moisture and greater density; nothing assists foundation performance more than reasonable depth.

Using these soil loadings as set out before, the following table is annexed

### Load on Center of Footing

In any kind of foundation, the load on the footing should be placed in the center of the footing, of course, and consequently the center of gravity of the load on the leg should be placed in the center of footing. And the column above the footing should also be arranged with the derrick sill so that

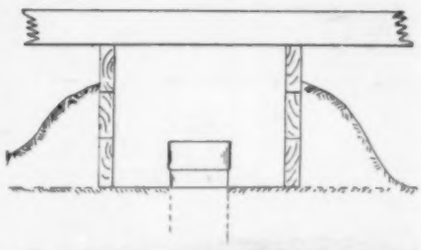


Fig. 6.—Ditch under derrick boarded in and banked with earth to keep water away from foundations

the center of the load will not alter from the center of footing. The foundation of Figure No. 7 with the upper two 8x10's spread apart is not good practice; the load is not applied to the center of the footing; the condition shown in Figure No. 8, at A and B, may be set up. If the derrick sills place so much load on the mud sill as to bend the mud sill, the outer end of the mud sill is elevated off of the 8x10, placing the load from this leg and the derrick floor weights, on to the inner 8x10, and the load is therefore carried on one side of the derrick leg footing.

This foundation was located on the Gulf Coast, where soils are soft and relatively damp; the well was drilled to 4300 feet with four-inch drill pipe, and the first pull necessary, at once damaged the derrick, requiring rebuilding.

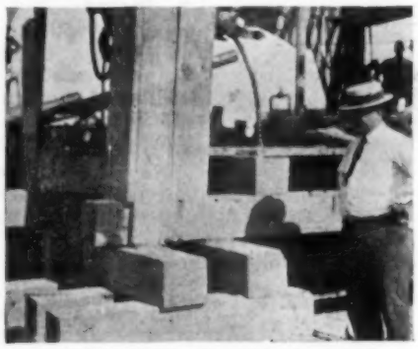
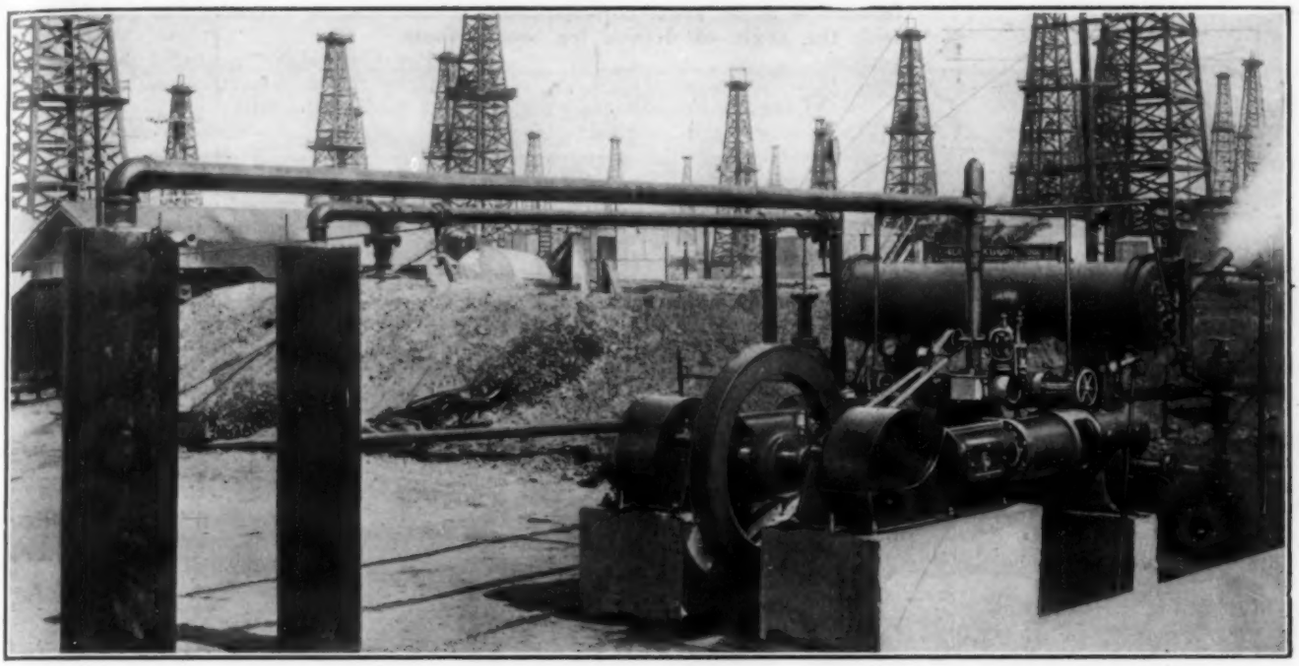


Fig. 7.—Foundation underneath 130 derrick

Under this derrick, a single 10x12 or two 8x10's below the mud sill on top of the three 8x10's would afford the nearest to a pin type column connection, by far the strongest connection between a column and a footing.

The leg foundation shown in Figure No. 9 is a similar proposition to Figure No 7. This foundation sank, as shown by the shims immediately below the mud sill and the topmost 8x10's of the grillage, and also by the bend downward of the mud sill. This derrick was 112 feet high, built on firm ground, and although only 2700 feet of 6⅝-inch casing was set under it, continual working of the derrick structure, shifting of load, pulling on frozen pipe, sunk this foundation because it had insufficient area in the first place and the load was eccentrically appplied to the footing in the second place, and water reached it, in the third place.

Eccentric loading of derricks transfers load unequally to the four legs. If



# This CP Compressor More Than Doubled the Flow

THE Chicago Pneumatic Compressor shown above is installed at the Keck Oil Syndicate, Signal Hill, for flowing Well No. 1.

Dry gas introduced into this well at 250 lbs. pressure has produced an average flow of 375 barrels per day as against 180 barrels formerly pumped by the usual method. In addition to the increased production of oil, each thousand cubic feet of gas returned produces 11 pints of gasoline. This installation paid for itself in the first nine weeks in operation.

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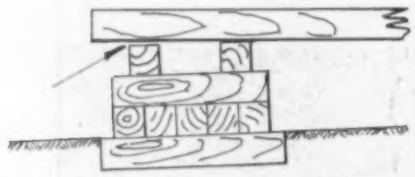

Fig. 8.—Condition set up by spreading upper members of grillage

the crown block is shifted to one side of the derrick, the weight lifted is also shifted to that side and the legs of that side receive the additional load, which is carried by the foundations of those two legs, with the load on the remaining two legs lessened in an equal amount.

Should one leg of the derrick sink, and the derrick tilt over, the crown block is usually shifted to center the pipe in the hole, setting up eccentric loading. The drilling hook acts as a plumb bob.

In stringing up, the lines should be carried over and rived so as to equalize the load and place it centrally on the crown block, equalizing as much as possible, the line pull with the load on the travelling block.

When the derrick floor is elevated as shown in Figures 7 and 9, the mud sill requires intermediate support to prevent bending under stress. As shown to the left in Figure No. 7, there is a lower sill on the ground, with short 8x10 columns extending from this lower sill to the mud sill—the upper or middle sill being termed mud sill, since it usually rests on the ground. When this lower sill extends beneath the footing, forming one of the 8x10's of the footing, the whole foundation is tied together and becomes more rigid, as shown further in Figure No. 10. Contrasted to this, the foundation of Figure No. 9 has the 8x10 columns resting on an individual footing and this latter foundation gave much trouble before this well was completed.

To be treated as a column footing, the load on a derrick foundation must be truly vertical. The only method of securing the desired truly vertical loading, is to tie the derrick legs together securely by means of the sills, to prevent the load being passed into the foundation at an angle corresponding with the angle of derrick leg from vertical.

### Concrete Foundations

Where concrete is used for securing better foundations, the proportioning of footing and column resting on footing secures an equally good foundation with less material, than where the whole foundation is tapered from the desired area at the top, to the desired area of footing at bottom.

The footing of Figure No. 14 secures the desired area, but the amount of concrete required is considerably more than that required for the footing shown in Figure No. 13.

As steel reinforcement required amounts to such small quantity, and the reduction in yardage of concrete amounts to more than the cost of reinforcement, a reinforced footing costs less than one not reinforced, only reinforced footings will be considered. Reinforcement prevents cracking and makes up a safer foundation.

In proportioning column to footing, punching shear must be considered. Punching shear may be compared to an ordinary metal punch, making holes in steel plate. The punching shear area is the perimeter of column resting on footing, times the depth of footing down to the reinforcing steel. The value of 120 pounds per square inch should not be exceeded for punching shear.

Punching shear produced by load may be found by multiplying the derrick load by the ratio:

$$\frac{\text{footing area—Column area}}{\text{footing area}}$$

Thus, in Figure No. 11, when the concrete footing is five feet square and the section, AD, or column, is twelve inches square, the ratio is:

$$\frac{25-1}{25} \text{ or } \frac{24}{25}$$

and assuming a leg load of 50 tons, we have

$$\frac{50 \times 24}{25}$$

equals 48 tons producing shear. Then dividing the shear load value of concrete, 120 pounds per square inch, into 96,000 pounds, we have 800 square inches of vertical shear area necessary, or 200 square inches per side for a four sided square column. Then, 12 inches into 200 inches equals 16.6 inches, or say 17 inches, which is the depth of footing necessary to produce the required shear area, and this depth is to the top of steel, from bottom of column.

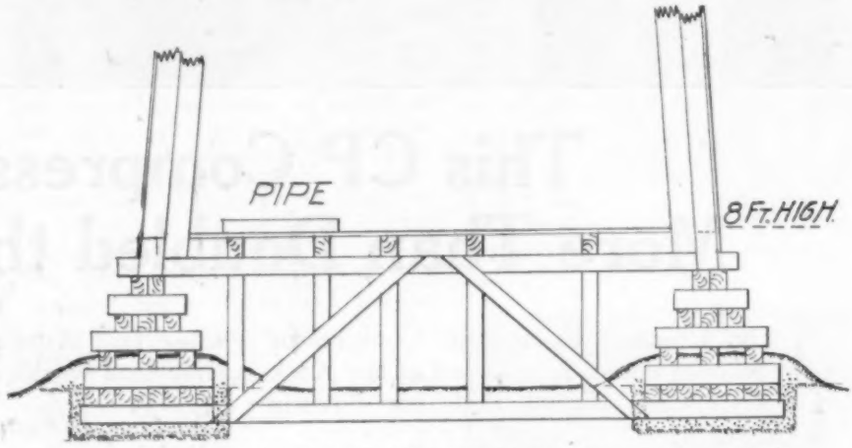


Fig. 10.—Elevated Derrick Floor foundation tied together with a continuous floating

Again, making the column area on footing 18 inches square, and computing as before, we have a thickness of nine inches only of concrete between column and footing reinforcement to produce the required punching shear area, due to lengthening the shear lines by making the column larger.

Hence, we can see that where a footing must be spread to reduce the soil load per square foot of footing area, punching shear area increases, and to avoid an execssively large column, either a stepped footing, Figure No. 12 or a sloped form, Figure No. 13, may be used to add to length of vertical shear lines.

### Reinforcing

These Figures 12 and 13 show a complete footing with column resting on it and extending to the surface, with the footing reinforced. On a clay soil and covered to shut out water, this footing

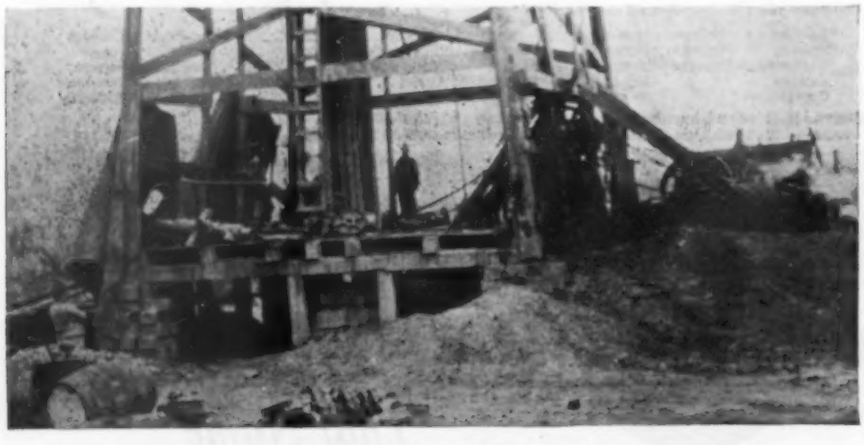

Fig. 9.—A foundation that repeatedly failed due to insufficient area of water

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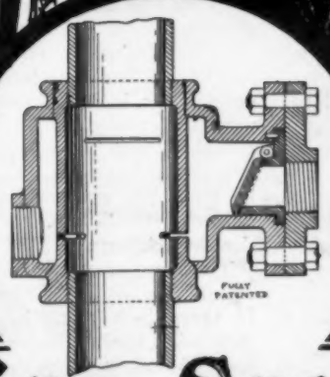

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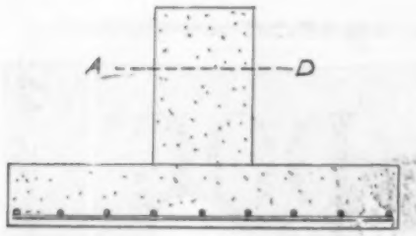


Fig. 11.—An incorrectly designed floating

and column has a capacity of 96 tons total load for each footing.

Small steel reinforcing bars, compared with large bars, using the same weight of steel, increase the bond between concrete and reinforcement and bars from one-half to three-quarters inch are preferably used in footings. These bars should be deformed or corrugated.

The footing shown in Figure No. 12 is reinforced with five-eighths bars and the weight of steel is $\frac{11'' \times 56''}{12} \times 1.04 \times 2$ 102 pounds of steel, which at four cents, equals $16.32 for the steel in the four footings—a very small expenditure for the benefit obtained, and which is more

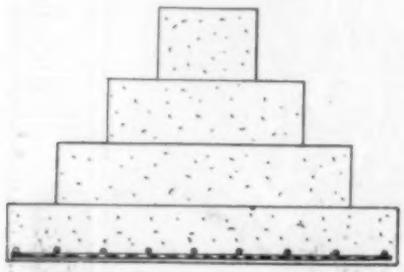

Fig. 12.—Stepped foundation to resist punching shear

than offset by the reduction in concrete required in reinforced footings as compared with plain concrete footings.

For deep wells, and wells where heavy strings of casing are to be handled, a firm solid foundation relieves the derrick legs of much stress of inequalization of load, and as there is nothing used for foundations that is firmer than concrete, a good solid, permanent foundation can be made of this material, whether the derrick be of steel or wood.

Where a well is to be drilled deep, and the time of drilling may be lengthened to six months or more, a concrete footing, not subject to decay or deterioration, forms a safeguard to employees and property worthy of consideration.

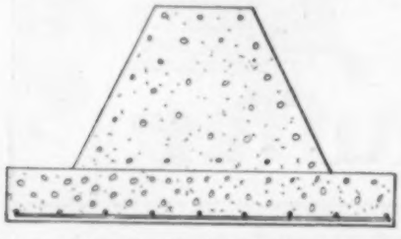

Fig. 13.—Concrete foundation with sides sloped to floating to resist punching shear

### Protection from Water

Water from drilling operations should in no case ever be allowed to reach the derrick foundation. This is very easily prevented, for the hole must be boarded up anyway, and the ditch under the derrick also boarded in, and while doing this, the earth excavated can be banked up all around the outside as shown in Figure No. 6. A tee and flow line of pipe extending underneath and beyond the derrick keeps all slush away.

A slush pit placed too close to the derrick can soften the ground and lower the foundation on that side. It is not necessary to place the pit edge nearer than ten feet, farther is better, and the ditch can run out from the other side an equal distance before turning.

The water hose can be connected to a pipe ending immediately over the ditch leading out from under the derrick, so that waste water runs into the ditch and not where it can flow toward the derrick foundation.

These precautions are not difficult, nor do they add any expense, while they undoubtedly protect the derrick.

In fixing the dimensions of foundations in which wood timbers are used, the area of wood under transverse compression must also be considered. The compressive strength of long leaf yellow pine and Douglas fir may be taken at 275 pounds per square inch, across the grain, without addition for live load characteristics of operating machinery. Then, one 8 x 10, setting across another 8 x 10, as shwon in Figure No. 3, secures a bearing area of 64 square inches, or a load capacity of 17,600 pounds and, constructed the same under all four legs, a total of 70,400 pounds load capacity. These loads are more generally exceeded to be sure, and we have consequent derrick failures.

Should hewn timbers be used for foundation, soil should be tamped underneath each timber as they are laid into place, the bearing of each timber on the other should be smooth, and the stills should also bear firmly, with full area.

When a shim is placed between the derrick sill and foundation of a wooden derrick, or below a steel derrick with wooden foundation, the shim should be full sized with the sill. A narrow shim, say six inches wide, between two eight by tens, will compress under load and destroy equalization of load between the derrick legs.

Timbers used for foundation slabs should be securely fastened together. If three inch thick by ten or twelve inch wide timber is used, these can be secured with large nails; larger timbers should be bolted. And a coat of tar paint materially lengthens the useful life of this kind of foundation.

The derrick shown in Figure No. 7 is elevated to provide space below the rotary for gate valve. When the derrick must be elevated still further, to provide additional vertical space for Christmas tree, as shown in Figure No. 9, the soil thrown up for engine foundation is too loose to provide a firm foundation footing for the two derrick legs adjoining. Hole for the derrick foundation should be excavated first and the footing placed on normal solid earth, when the engine emplacement may then be thrown up around and over it.

### Pile Foundations

Where the derrick must be elevated above water, or in the muds on the bottom of Coastal bays and lagoons, where flowage would be excessive, piling offers an easy solution to prevent extensive spreading of foundation footings.

Timber piling, cut off below water, lasts indefinitely. The formula found most accurate and used most generally is that termed The Engineering News Formula, as follows:

For a pile driven with a drop hammer:

$$P = \frac{2\ Wh}{S + 1}$$

And for a pile driven with steam hammer:

$$P = \frac{2\ Wh}{S + 0.1}$$

In which P equals the safe load in pounds; W the hammer weight in pounds; h the fall of hammer in feet,

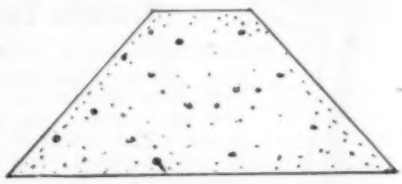

Fig. 14.—Plain concrete floating

and S the penetration in inches under the last blow of the hammer.

For instance, a pile driven with a 2000 pound hammer falling 15 feet with one inch penetration at the last blow, computes as follows:

$$P = \frac{2 \times 2000 \times 15}{1+1} = 30{,}000 \text{ pounds.}$$

For a penetration of five inches the last blow, the load permissable would be:

$$P = \frac{2 \times 2000 \times 15}{1+5} = 10{,}000 \text{ pounds.}$$

Which illustrates the difference in load capacity between a penetration of one inch and five inches the last blow.

The base of the pile being pointed, vertical bearing pressure does not enter into the problem, for piling suports a load entirely by frictional contact between earth and pile.

Where penetration is great and the load is not supportable according to the foregoing formula except by using great clusters of piles, length may be employed to secure greater frictional

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contact area. On this basis, a load of 150 pounds per square foot area of pile contact with earth can be safely used. Thus, a 12 inch diameter pile fifty feet long, assuming a uniform diameter, has a side surface of 157.08 square feet, which multiplied by 150, gives a load capacity of 23,550 pounds per pile.

Piles should be spaced not less than two nor more than three feet center to center and should be not less than six inches in diameter at the base and not more than eighteen in diameter at the large end.

## Pipe Line Heater Avoids Danger of Burning Pipe

A simple and effective pipe line heater is being used by the Kingwood Pipe Line Company in the Okmulgee (Oklahoma) district. It burns natural gas but instead of having the flame play on the line, as is usually the case, the combustion takes place in a separate chamber which is placed below, and opens directly into the chamber surrounding the line.

In this way, the line is heated by the hot gases resulting from combustion rather than by direct contact with the flame. This is to be desired since the flame will sooner or later damage the pipe by "burning" it. The principle of the device as a heater is, furthermore, slightly more effective.

The chamber which conducts the hot gases around the line is but a section of large size casing through which the line has been passed. Both ends are closed around the line by welding into the casing a small plate of the necessary size.

The combustion chamber is another section of casing of about the same size which has been welded at right angles into the pieces surrounding the line. On the opposite end and side of the piece through which the line passes is welded a length of smaller pipe to serve as a "stack."

The natural gas is led into the combustion chamber through a home-made gas-air mixer. To prevent the wind disturbing the flame, the lower end of the combustion chamber is placed into an old 60-gallon steel drum which has had the bottom removed. A door is cut into the drum with the torch to facilitate lighting the gas and three legs (small rods) welded on as supports.

The entire affair rests upon two welded uprights made, as shown in the picture, from old pipe.

Fig. 1.—A pipe line heater used by the Kingwood Oil Company which according to the company is a big improvement over old type heaters

## Show of Oil in Lime Rock In Deep Caddo Parish Test

Shreveport, La.—It is reported here that the Ohio Oil Company has encountered a showing of oil in a lime rock logged at 3830 feet in its Ardis deep test, located in section 1-21-15, of the Pine Island district. A string of 6⅝-inch casing has been cemented at 3822 feet, and a thorough test of the Pine Island deep sand is to be made soon. The same company is drilling at 3680 feet in its E. K. Smith No. 18, in section 12, and at 3515 feet in its Noel B-2, in section 13, both of township 21-15.

The Dixie Oil Company is also drilling into the deep sand in its Jolly No. 1, in section 27-22-15, in which 4½-inch casing was cemented at a depth of 3738 feet. The Fortuna Oil Company is preparing to drill the plug in its Levee Board deep test, in section 8-20-15, near Oil City, in which 4½-inch casing was cemented at 4023 feet.

The Lewis Oil Corporation surprised the local fraternity recently by bringing in a 400-barrel chalk well on its Vespy property, in section 15-21-15, of the Pine Island district. The well was finished at a total depth of 1600 feet. It is flowing clean oil worth, at the latest posting, $2.20 per barrel.

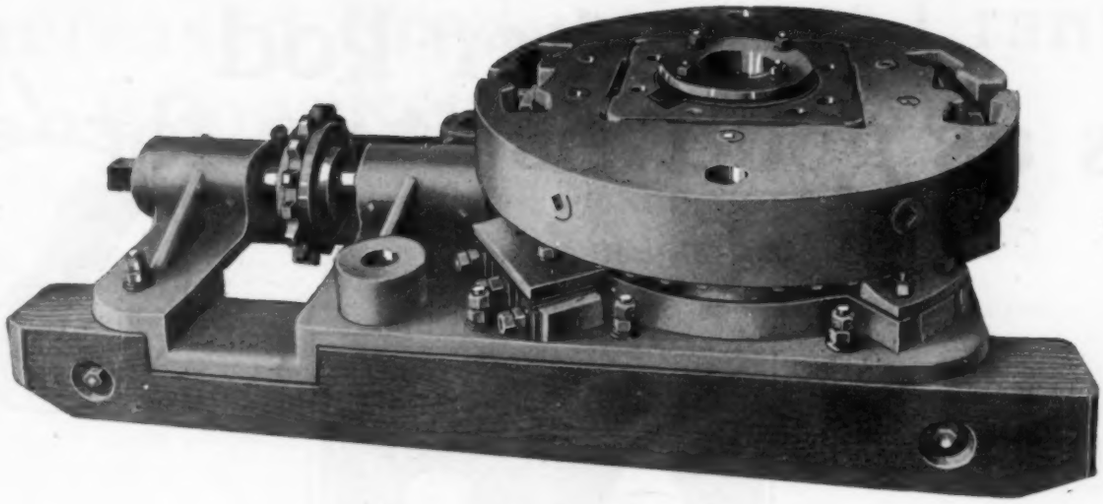
Dowling & McCurry, who are drilling in section 20-9-1e, of Grant Parish, about six miles southwest from the Urania field, in La Salle Parish, are said to have developed a showing of oil and gas, accompanied by salt water, in the course of a test which is being made of a sand logged at 1407 feet in their Holmes wildcat. Casing was set at 1382 feet. Bailing is being continued in the hope of increasing the showing of oil and gas.

Operators throughout North Louisiana and South Arkansas are interested in the forthcoming test of the newly-found deep sand in the Ohio Oil Company's Hodges well, at Cotton Valley, which is located near the Palmer Corporation's deep sand discovery well. Six-inch casing has been cemented at a depth of 4260 feet, and drilling will be resumed this week.

Plans to shoot the hard rock which is showing gas with a slight spray of oil at 4300 feet in the discovery well are being held in abeyance, for the reason, it is said, that the well is making so much gas that a shooting operation might prove dangerous.

The Ohio Oil Company is drilling at around 4100 feet in its Cox No. 1, which is also located near the Palmer well; and the Humble Oil and Refining Company is drilling at 4185 feet in its Cox No. 1, located in section 22-21-10, adjoining.

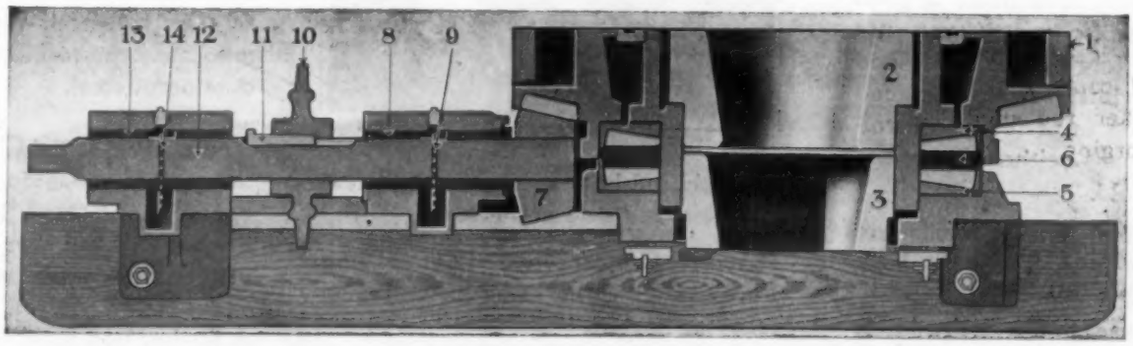
Fig. 2.—The Usua: Type of Pipe Line Heater



# Oil Bath Make and Break Rotary

All working parts of this rotary run in oil, no mud or grit can enter any working part. There are no bolts to work loose, the pinion shaft is fit in solid boxes with removable bronze bushings. An oil reservoir with chain oiling drive keeps pinion shaft thoroughly lubricated. The cones and race rings are made of heat treated steel and are oil tight thus making a thorough oil bath swivel throughout.

The simplest make and break rotary made. Remove the top slip ring and transfer the slips to the stationary slip ring below and you are ready to make up pipe or break it out. Can you imagine anything more simple?




A Cross Section showing the parts and how simple the construction

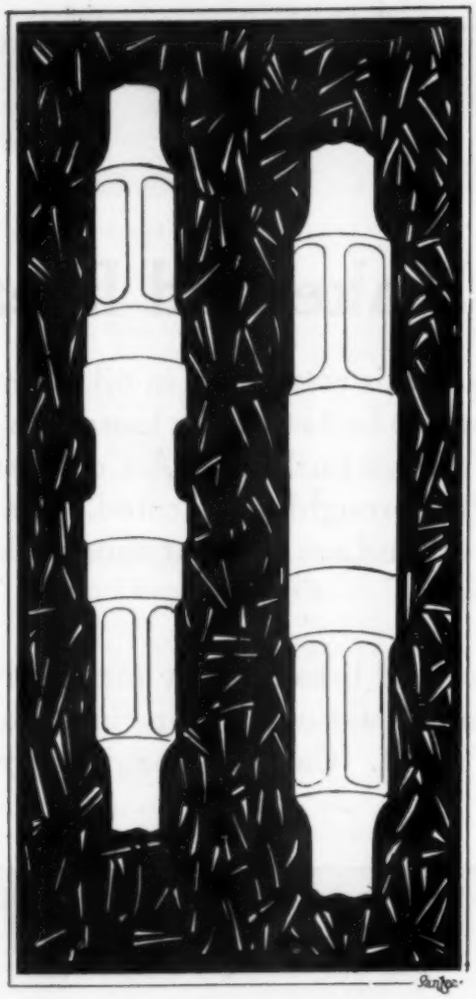
**Manufactured By**

## OIL CITY IRON WORKS, INC.

**SHREVEPORT, LA.**

*Say you saw it in The OIL WEEKLY*

# A Sucker Rod is as good as it is forged



YOU can't make a good sucker rod if you use poor forging methods—and the prime requisite for good forging is perfectly controlled heat—neither too hot nor too cold.

Sheffield Sucker Rods are forged in Pyrometer Controlled Furnaces.

An exact predetermined heat is reached and maintained throughout the operation—positive assurance that every Sheffield rod has exactly the right texture—neither soft nor brittle.

Pyrometer Controlled Normalizing Furnaces give the same exactness in relieving forging strains.

Every operation in the manufacture of Sheffield Steel Rods is carried out with the same exactness and attention to detail—by men who are experts in the production of steel.

And every Sheffield Rod delivers the goods in actual operation — (No Sheffield Sucker Rod has ever broken at the pin in actual service).

A Sucker Rod must stand up under severe strains—it will pay you to buy a good one.

**INTERNATIONAL SUPPLY CO.**
**TULSA ISCO OKLA.**
INTERNATIONAL SUPPLY COMPANY

*Say you saw it in The OIL WEEKLY*

# Increased Production at Urania Brings Reduction in Price

## Cotton Valley deep well yielding 75 barrels daily through drips in gas line

Shreveport, La.—That the new oil field near Urania and Tullos, in La Salle Parish, may perhaps prove a factor in the market situation is evidenced by the fact that, following the completion last week of several gushers and the bringing in of more than 5000 barrels of new production, the Louisiana Oil Refining Corporation today announced a cut of ten cents per barrel on Urania crude. Under the new posting, producers will receive $1.40 per barrel at the well.

The development campaign is in full blast now, and the boom has already assumed proportions greater than many observers formerly thought the field might be capable of. The Louisiana Oil Refining Corporation's Tremont Lumber Company No. 17, located near the center of the east half of section 25-10n-1e, about three quarters of a mile east of the town of Tullos, was brought in one week ago today, is still flowing at the rate of 1800 barrels per day from four feet of sand at a total depth of 1536 feet. This well, having produced in gusher style for a whole week, probably has established a new record for sustained production, as few of the so-called Urania gushers have held up that long. Chal Daniels and others brought in a 1000 barrel well on their Tullos tract, in Tullos townsite, and the Standard Drilling Company also got a very good well on its Clinton lease, in the townsite area. Eighteen wells were brought in last week, having a combined initial production of more than 5000 barrels per day. It is believed that two dozen or more new wells may be completed this week.

Hunt and other, drilling at a location near the southeast corner of section 7-10-2e and about one-half mile southwest of the town of Urania, extended the productive area about a half mile northeast by the completion of a 700 barrel well. This location is about one half mile northeast of the Urania Petroleum Company's discovery well, completed on March 23, of last year, which was thought to mark the limit of the field in the northeasterly direction. This development will re-open the discussion as to the probable extent of the productive area, as it is located beyond the boundary of the field, as formerly accepted by well-posted operators.

**Gasoline Well at Cotton Valley**

The Palmer Corporation's Davis No. 1, deep sand discovery well of the Cotton Valley field. which is located in section 23-21-10, Webster Parish, was turned into that company's gas lines on Friday of last week. Since that time, the well has been yielding at the rate of 75 barrels per day of clear high-gravity gasoline, which is being recovered through a system of drips installed in the flow lines. The well is being drawn upon the extent of around four million cubic feet of gas per day. Its gasoline output, which shows a gravity of 66 degrees, is only slightly colored.

The Ohio Oil Company's Hodges deep test, located in the same section, was completed last week as a small gasser at a total depth of 4415 feet. This gas will be used for fuel on the Ohio's extensive producing properties in the Cotton Valley field, and the same company's Cox No. 1, another deep test also located in section 23, is to be continued to a depth of 5000 feet or more. or until production is found. The Cox well is now more than 4560 feet deep. The Humble Oil and Refining Company is still fishing at 4214 feet in its Cox deep test, in section 22 of the same township.

It is reported on the streets of Shreveport that a deep test is to be drilled on the Shongaloo structure, in township 23-9, Webster Parish, during the next few months. J. K. Wadley is named in connection with the syndicate which is said to be planning this development, although no definite announceemnts have as yet been made. Lease buyers have recently been active throughout the territory, but few of the contracts have as yet been filed for record. The Shongaloo structure, being located near and of similar character to the one at Cotton Valley, should share with the latter field and with Pine Island in the prospect for deep sand production.

A syndicate headed by A. N. Yost and others has assembled a block of more than 8000 acres preparatory to the drilling of a wildcat test to be located in the vicinity of sections 7 and 8 of township 20-6, Claiborne Parish, about Midway between Homer and Sugar Creek.

The Gulf Refining Company completed a 325 barrel pumper last week on its extensive Ferry Lake property, near Mooringsport, Caddo district. The recent completion, known as Ferry Lake No. 226, is pumping at the rate of 325 barrels of 44-gravity oil per day from a total depth of 2,290 feet.

The Dixie Oil Company's Robertshaw No. 53, discovery oil well of the Pine Island deep sand, located in section 13-21-15, is still flowing at the rate of 500 barrels of oil per day, accompanied by around 2,500 barrels of salt water.

The Gulf Refining Company, after having drilled the deepest hole in Louisiana, has abandoned its Williams deep test, in Section 31-13-11, of the Narborton district, of De Soto Parish. Drilling was discontinued at a total depth of 6,090 feet.

### Magnolia to Handle Bruni Field Crude

Laredo, Texas.—Magnolia Petroleum Company is laying a 10-mile, 4-inch field line from its tank farm one mile east of Mirando City to the new Cintex well across the line in Duval county. When this line is completed the well will be opened and gauged.

Magnolia has seven 55,000 barrel tanks on the ground at their field headquarters at Oilton. Cintex has set up 3,000 barrels of storage on the lease for emergencies.

Cole Petroleum Company owns the field and only a few lease deals for acreage more than a mile away are reported. Moody & Seagraves have started the first wildcat test in Block 6, Survey 10, northwest of the well to determine the direction of the field.

The Simms Oil Company has let a contract for a 3,000-foot test on the Oscar Thompson subdivision in Jim Hogg county. The location is more than three miles east of the Henne Winch & Farriss pool and if successful, will mean another pool.

There is more activity at Laredo than in many years and everything points to a big drilling campaign up and down the Mirando structure and in Duval county during the coming months.

George Echols opened a new area in the Mirando district last week by the completion of a 100-barrel well on block 45 of the Bruni Subdivision of the Albercas Grant in Webb County. It is southwest of the Edgington extension pool recently opened.

# SINCLAIR OILS

THE SINCLAIR dealer is more than merely a customer of the Sinclair Refining Company. With each sale to him there goes the assurance of our help in his own selling problems, whenever he requests it. He is related to us as one Sinclair Department is to another.

The rapid growth of the Sinclair Refining Company is due largely to our close alliance with dealers. We can only grow as Sinclair dealers grow.

SINCLAIR REFINING COMPANY

NEW YORK
Sinclair Oil Bldg., 45 Nassau St.
Telephone: Rector 9320

CHICAGO
22nd and Rockwell Streets
Telephone: Crawford 2000

*Cable Address: "Lucent"*

# CRUDE OIL PRICE QUOTATIONS

## Crude Price Changes

February 27.—Effective at the opening of the market today, Joseph Seep Purchasing Agency posted a 40-cent increase in the price of Corning crude, making the price $2.35.

March 1.—Effective at the opening of the market today, Louisiana Oil Refining Company posted a 10-cent reduction in the price of Urania crude, making the price $1.40.

## Current Postings

### CALIFORNIA

**Kern River, Wheeler Ridge, McKittrick, Lost Hills, Coalinga, Newhall, Midway, Sunset, Elk Hills**

| | March 3 1926 |
|---|---|
| 14 to 19.9 gravity | .75 |

**La Habra, Whittier**

| | |
|---|---|
| 14 to 19.9 gravity | .85 |
| 20 gravity | .87 |
| 21 gravity | .89 |
| 22 gravity | .91 |

**Montebello**

| | |
|---|---|
| 14 to 19.9 gravity | .85 |
| 20 gravity | .87 |
| 21 gravity | .89 |
| 22 gravity | .91 |
| 23 gravity | .94 |
| 24 gravity | .97 |
| 25 gravity | 1.01 |
| 27 gravity | 1.04 |
| 28 gravity | 1.07 |
| 29 gravity | 1.10 |
| 30 gravity | 1.13 |

***Torrance, Richfield, Inglewood, Brea, Olinda, Signal Hill, Huntington Beach**

| | |
|---|---|
| 14 gravity | .85 |
| 15 gravity | .87 |
| 16 gravity | .90 |
| 17 gravity | .94 |
| 18 gravity | .98 |
| 19 gravity | 1.02 |
| 20 gravity | 1.06 |
| 21 gravity | 1.10 |
| 22 gravity | 1.14 |
| 23 gravity | 1.18 |
| 24 gravity | 1.22 |
| 25 gravity | 1.26 |
| 26 gravity | 1.30 |
| 27 gravity | 1.34 |
| 28 gravity | 1.38 |
| 29 gravity | 1.42 |
| 30 gravity | 1.46 |
| 31 gravity | 1.52 |

*Inglewood and Torrance follow this posting through 28 degrees only.

**Lost Hills, Midway, Sunset, Elk Hills**

| | |
|---|---|
| 14 to 19.9 gravity | .75 |
| 20 gravity | .79 |
| 21 gravity | .84 |
| 22 gravity | .92 |
| 23 gravity | 1.00 |
| 24 gravity | 1.08 |
| 25 gravity | 1.16 |
| 26 gravity | 1.24 |
| 27 gravity | 1.32 |
| 28 gravity | 1.40 |
| 29 gravity | 1.48 |
| 30 gravity | 1.56 |
| 31 gravity | 1.64 |
| 32 gravity | 1.72 |
| 33 gravity | 1.80 |
| 34 gravity | 1.88 |

**Coalinga, Wheeler Ridge**

| | |
|---|---|
| 20 gravity | .91 |
| 21 gravity | .92 |
| 22 gravity | .93 |
| 23 gravity | .95 |

**Wheeler Ridge**

| | |
|---|---|
| 14 to 19.9 gravity | .75 |
| 20 gravity | .78 |
| 21 gravity | .81 |
| 22 gravity | .84 |
| 23 gravity | .87 |
| 24 gravity | .90 |
| 25 gravity | .93 |
| 26 gravity | .97 |
| 27 gravity | 1.00 |

**Coalinga**

| | March 3 1926 |
|---|---|
| 14 to 19.9 gravity | .75 |
| 20 gravity | .79 |
| 21 gravity | .84 |
| 22 gravity | .89 |
| 23 gravity | .94 |
| 24 gravity | .99 |
| 25 gravity | 1.04 |
| 26 gravity | 1.09 |
| 27 gravity | 1.14 |
| 28 gravity | 1.19 |
| 29 gravity | 1.24 |
| 30 gravity | 1.29 |
| 31 gravity | 1.34 |
| 32 gravity | 1.39 |
| 33 gravity | 1.44 |
| 34 gravity | 1.49 |
| 35 gravity | 1.54 |

**Signal Hill**

| | |
|---|---|
| 31 gravity | 1.52 |

**Coyote Hills**

| | |
|---|---|
| 14 to 19.9 gravity | .85 |
| 20 gravity | .88 |
| 21 gravity | .94 |
| 22 gravity | 1.00 |
| 23 gravity | 1.06 |
| 24 gravity | 1.10 |
| 25 gravity | 1.16 |
| 26 gravity | 1.24 |
| 27 gravity | 1.30 |
| 28 gravity | 1.36 |
| 29 gravity | 1.42 |
| 30 gravity | 1.48 |

**Santa Fe Springs**

| | |
|---|---|
| 24 gravity | .97 |
| 25 gravity | 1.05 |
| 26 gravity | 1.13 |
| 27 gravity | 1.21 |
| 28 gravity | 1.28 |
| 29 gravity | 1.34 |
| 30 gravity | 1.40 |
| 31 gravity | 1.46 |
| 32 gravity | 1.52 |
| 33 gravity | 1.60 |
| 34 gravity | 1.68 |
| 35 gravity | 1.76 |
| 36 gravity | 1.84 |
| 37 gravity | 1.93 |
| 38 gravity | 2.00 |

**Rosecrans, Dominguez**

| | |
|---|---|
| 26 gravity | 1.30 |
| 27 gravity | 1.34 |
| 27 gravity | 1.38 |
| 28 gravity | 1.42 |
| 29 gravity | 1.46 |
| 30 gravity | 1.50 |
| 31 gravity | 1.52 |
| 32 gravity | 1.52 |
| 33 gravity | 1.64 |
| 34 gravity | 1.70 |
| 35 gravity | 1.76 |
| 36 gravity | 1.84 |
| 37 gravity | 1.92 |
| 38 gravity | 2.00 |
| 39 gravity | 2.08 |
| 40 gravity | 2.16 |
| 41 gravity | 2.24 |
| 42 gravity | 2.30 |

**Fuel Oil**

| | |
|---|---|
| Richmond | 1.04 |
| El Segundo | 1.00 |
| San Pedro | 1.00 |

### EASTERN STATES

| | |
|---|---|
| New York Transit | 3.90 |
| Bradford District | 3.90 |
| National Transit | 3.80 |
| Southwest | 3.80 |
| Eureka | 3.75 |
| Macksburg | 3.30 |
| Gains | 2.95 |
| Somerset medium | 2.30 |
| Somerset light | 2.45 |
| Cabell | 2.50 |
| Ragland | 1.40 |
| Corning | 2.35 |

### CENTRAL STATES

| | March 3 1926 |
|---|---|
| Illinois | 2.12 |
| Indiana | 2.00 |
| Lima | 2.23 |
| Plymouth | 1.65 |
| Princeton | 2.12 |
| Waterloo | 1.10 |
| Wooster | 2.25 |

### WESTERN KENTUCKY

**Posted by Indian Refining Company for crude from Allen, Warren, Franklin, Davies, Barren, Cumberland and Monroe Counties**

| | |
|---|---|
| 36 and above | 1.80 |
| 33 to 35.9 | 1.70 |
| 32.9 and below | 1.60 |

### MID-CONTINENT

| | Prairie Sinclair* Texas Gulf | Magnolia |
|---|---|---|
| Below 28 | | 1.20 |
| 28 to 28.9 gravity | 1.40 | 1.40 |
| 29 to 29.9 gravity | 1.48 | 1.48 |
| 30 to 30.9 gravity | 1.56 | 1.56 |
| 31 to 31.9 gravity | 1.64 | 1.64 |
| 32 to 32.9 gravity | 1.72 | 1.72 |
| 33 to 33.9 gravity | 1.80 | 1.80 |
| 34 to 34.9 gravity | 1.88 | 1.88 |
| 35 to 35.9 gravity | 1.96 | 1.96 |
| 36 to 36.9 gravity | 2.04 | 2.04 |
| 37 to 37.9 gravity | 2.12 | 2.12 |
| 38 to 38.9 gravity | 2.20 | 2.20 |
| 39 to 39.9 gravity | 2.28 | 2.28 |
| 40 to 40.9 gravity | 2.36 | 2.36 |
| 41 to 41.9 gravity | 2.44 | 2.44 |
| 42 to 42.9 gravity | 2.52 | 2.52 |
| 43 to 43.9 gravity | 2.60 | 2.60 |
| 44 to 44.9 gravity | 2.68 | 2.68 |
| 45 to 45.9 gravity | 2.76 | 2.76 |
| 46 to 46.9 gravity | 2.84 | 2.84 |
| 47 to 47.9 gravity | 2.92 | 2.92 |
| 48 to 48.9 gravity | 3.00 | 3.00 |
| 49 to 49.9 gravity | 3.08 | 3.08 |
| 50 to 50.9 gravity | 3.16 | 3.16 |
| 51 to 51.9 gravity | 3.24 | 3.24 |
| 52 and above | 3.32 | 3.32 |

*Sinclair's postings include no oil above 44 gravity.

### NORTH AND CENTRAL TEXAS

**Ranger, North Texas, Mexia, Powell, Richland, Wortham, Lytton Springs, Currie, Moran, Somerset and Big Lake crude**

| | Somerset (Grayburg) | Humble O. & R. Co. Texas Co.* |
|---|---|---|
| 28 to 28.9 gravity | 1.15 | 1.40 |
| 29 to 29.9 gravity | 1.25 | 1.48 |
| 30 to 30.9 gravity | 1.31 | 1.56 |
| 31 to 31.9 gravity | 1.39 | 1.64 |
| 32 to 32.9 gravity | 1.47 | 1.72 |
| 33 to 33.9 gravity | 1.55 | 1.80 |
| 34 to 34.9 gravity | 1.63 | 1.88 |
| 35 to 35.9 gravity | 1.71 | 1.96 |
| 36 to 36.9 gravity | 1.79 | 2.04 |
| 37 to 37.9 gravity | 1.87 | 2.12 |
| 38 to 38.9 gravity | 1.95 | 2.20 |
| 39 to 39.9 gravity | 2.01 | 2.28 |
| 40 to 40.9 gravity | 2.07 | 2.36 |
| 41 to 41.9 gravity | 2.13 | 2.44 |
| 42 to 42.9 gravity | 2.19 | 2.52 |
| 43 to 43.9 gravity | 2.25 | 2.60 |
| 44 and above | 2.31 | 2.68 |

Corsicana Heavy $1.15 per barrel, posted by Magnolia.

*The Texas Company's postings begin at 28, and Gulf Coast light oil is included in this schedule, posted by The Texas Company.

### SOUTH TEXAS

| | |
|---|---|
| Mirando (Texpata) | 1.15 |
| Mirando (Magnolia) | 1.15 |

**(Continued on next page)**

# AVERAGE DAILY PRODUCTION FOR U.S.

## Texas

### NORTH TEXAS

| | Feb. 20 | Feb. 27 |
|---|---|---|
| Burkburnett | 12,300 | 12,350 |
| Electra | 16,150 | 16,300 |
| Iowa Park and K-M-A | 5,450 | 5,500 |
| Wilbarger | 12,150 | 11,400 |
| Panhandle | 3,050 | 5,600 |
| Petrolia | 450 | 300 |
| Archer County | 26,200 | 27,300 |
| Others | 900 | 950 |
| Total | 76,550 | 79,700 |

### EAST CENTRAL TEXAS

| | | |
|---|---|---|
| Mexia | 13,150 | 13,350 |
| Currie | 1,050 | 1,100 |
| Richland | 2,300 | 2,300 |
| Corsicana-Powell | 32,200 | 32,600 |
| Wortham | 10,500 | 10,800 |
| Total | 59,200 | 60,150 |

### WEST CENTRAL TEXAS

| | | |
|---|---|---|
| Stephens County | 12,750 | 12,750 |
| Eastland County | 5,900 | 5,900 |
| Desdemona | 2,050 | 2,050 |
| Young County | 7,950 | 8,250 |
| Palo Pinto County | 400 | 400 |
| Callahan County | 4,450 | 4,500 |
| Shackelford County | 2,300 | 2,600 |
| Keagan County | 28,700 | 31,300 |
| Others | 5,100 | 5,300 |
| Total | 69,600 | 73,050 |

### SOUTHWEST TEXAS

| | | |
|---|---|---|
| Luling | 21,200 | 21,600 |
| Mirando | 5,600 | 5,700 |
| Somerset | 2,250 | 2,300 |
| Lytton Springs | 7,150 | 7,250 |
| Others | 750 | 800 |
| Total | 36,950 | 37,650 |
| Texas tot'l outside Gulf Coast | 243,000 | 250,550 |

### GULF COAST

| | | |
|---|---|---|
| Goose Creek | 8,550 | 9,600 |
| Hull | 15,250 | 15,250 |
| Saratoga | 1,250 | 1,300 |
| Blue Ridge | 900 | 800 |
| Damon Mound | 1,000 | 1,050 |
| Batson | 1,150 | 1,100 |
| West Columbia | 9,150 | 9,200 |
| Humble | 4,900 | 4,900 |
| Pierce Junction | 1,300 | 1,050 |
| Sour Lake | 4,800 | 4,500 |
| Spindletop | 4,150 | 2,850 |
| Orange County | 13,600 | 11,850 |
| Edgerly | 600 | 1,150 |
| Evangeline | 1,050 | 1,100 |
| Vinton | 6,600 | 6,600 |
| Lockport | 1,600 | 1,650 |
| South Liberty | 7,700 | 7,750 |
| Big Creek | 1,000 | 1,400 |
| Boling | 3,950 | 8,800 |
| Piedras Pintas | 700 | 1,250 |
| Others | 1,600 | 1,700 |
| Total | 90,800 | 94,850 |

## North Louisiana

| | | |
|---|---|---|
| Homer | 5,850 | 5,900 |
| Haynesville | 10,350 | 10,350 |
| Caddo Light | 8,850 | 9,100 |
| Caddo Heavy | 2,250 | 2,300 |
| De Soto-Red River | 3,950 | 3,800 |
| Elm Grove | 600 | 550 |
| Bellevue | 2,350 | 2,300 |
| Cotton Valley | 8,100 | 8,250 |
| Urania | 2,300 | 5,600 |
| Total | 44,600 | 48,150 |

## California

| | | |
|---|---|---|
| Santa Fe Springs | 48,000 | 48,000 |
| Long Beach | 111,000 | 112,000 |
| Huntington Beach | 44,500 | 44,500 |
| Torrance | 28,000 | 28,000 |
| Dominguez | 23,000 | 23,000 |
| Rosecrans | 22,500 | 22,000 |
| Inglewood | 55,000 | 53,500 |
| Midway-Sunset | 92,000 | 92,000 |
| Others | 180,000 | 180,000 |
| Total | 603,500 | 603,000 |

## Oklahoma

| | | |
|---|---|---|
| North Braman | 2,150 | 2,150 |
| South Braman | 8,350 | 8,150 |
| Blackwell | 3,530 | 3,250 |
| Hubbard | 2,150 | 2,000 |
| Thomas | 9,350 | 8,600 |
| Tonkawa | 41,950 | 44,250 |
| Garber | 26,600 | 26,350 |
| Burbank | 44,750 | 44,500 |
| Osage (Outside Burbank) | 33,000 | 32,200 |
| Watchorn | 2,850 | 2,800 |
| Cushing | 22,500 | 22,500 |
| Yale Jennings | 11,450 | 15,650 |
| Davenport | 21,800 | 21,150 |
| Bristow-Slick | 31,950 | 31,850 |
| North Okmulgee | 18,500 | 18,400 |
| Lyons-Deaner | 4,300 | 4,350 |
| Stroud | 2,850 | 2,850 |
| Cromwell | 19,600 | 19,700 |
| Papoose | 15,100 | 14,250 |
| Wewoka | 15,750 | 17,250 |
| Duncan District | 7,500 | 7,600 |
| Graham | 9,200 | 9,300 |
| Fox | 3,600 | 3,750 |
| Healdton | 15,000 | 15,000 |
| Hewitt | 12,500 | 12,300 |
| Others | 63,900 | 64,250 |
| Total | 450,000 | 455,400 |

## Arkansas

| | | |
|---|---|---|
| El Dorado | 7,550 | 7,700 |
| Smackover Light | 18,850 | 18,950 |
| Smackover Heavy | 140,400 | 137,250 |
| Stephens | 1,500 | 1,500 |
| Nevada | 1,600 | 1,600 |
| Total | 169,900 | 167,000 |

## Kansas

| | | |
|---|---|---|
| Florence-Covert | 1,900 | 1,800 |
| Peabody-Ebling | 4,850 | 4,650 |
| Eldorado-Towanda | 14,150 | 14,150 |
| Augusta-Fox Bush | 5,050 | 5,000 |
| Rainbow Bend | 4,850 | 5,100 |
| Russell | 5,100 | 5,100 |
| Greenwood County | 41,150 | 41,500 |
| Others | 25,500 | 25,950 |
| Total | 102,600 | 103,250 |

## Mountain States

### WYOMING

| | | |
|---|---|---|
| Salt Creek | 53,950 | 57,100 |
| Grass Creek | 2,750 | 2,750 |
| Elk Basin | 550 | 650 |
| Big Muddy | 3,350 | 3,350 |
| Lost Soldier | 4,200 | 4,250 |
| Rock River | 2,750 | 3,100 |
| Teapot Dome | 1,700 | 1,150 |

### GULF COAST

| | March 3 1926 |
|---|---|
| Grade "A" | 1.50 |
| Grade "B" at Blue Ridge, Hull and Pierce Junction | 1.25 |

### LULING

| | |
|---|---|
| Based on Contract | 1.20 |

### LOUISIANA-ARKANSAS

**Caddo**

| | |
|---|---|
| 38 gravity and above | 2.20 |
| 35 to 37.9 gravity | 2.10 |
| 32 to 34.9 gravity | 2.00 |
| Below 32 gravity | 1.85 |

**Homer**

| | |
|---|---|
| 35 gravity and above | 1.95 |
| 33 to 34.9 gravity | 1.85 |
| 31 to 32.9 gravity | 1.75 |
| Below 31 gravity | 1.60 |

**Cotton Valley**

| | |
|---|---|
| All grades | 1.10 |

**Haynesville**

| | |
|---|---|
| 33 gravity and above | 1.85 |
| Below 33 gravity | 1.75 |

**Bull Bayou**

| | |
|---|---|
| 38 gravity and above | 2.00 |
| 35 to 37.9 gravity | 1.85 |
| 32 to 34.9 gravity | 1.70 |
| De Soto crude | 2.05 |
| Crichton | 1.85 |
| Bellevue | 1.65 |
| Jennings | 1.50 |
| Vinton | 1.50 |
| Edgerly crude | 1.50 |
| Urania | 1.40 |

**Smackover**
**(Standard, Gulf, Louisiana, Shreveport-El Dorado and Atlanta)**

| | |
|---|---|
| 27 and above | 1.40 |
| 26 to 26.9 gravity | 1.35 |
| 25 to 25.9 gravity | 1.30 |
| 24 to 24.9 gravity | 1.25 |
| Below 24 gravity | 1.00 |

**The Texas Company**

| | |
|---|---|
| 27 and above | 1.40 |
| 26 to 26.9 gravity | 1.35 |
| 25 to 25.9 gravity | 1.30 |
| 24 to 24.9 gravity | 1.25 |
| Below 24 gravity | 1.00 |

**El Dorado**

| | March 3 1926 |
|---|---|
| 33 gravity and above | 1.85 |
| Below 33 gravity | 1.75 |
| East Field (Calion) | .95 |

**Stephens District**

| | |
|---|---|
| 26 gravity and above | 1.50 |
| Below 26 gravity | 1.30 |

### WYOMING-MONTANA

**Wyoming**

| | |
|---|---|
| Byron | 2.25 |
| Ferris | 1.53 |
| Elk Basin | 2.15 |
| Grass Creek | 2.15 |
| Rock Creek | 2.00 |
| Lost Soldier | 1.10 |
| Lance Creek | 2.15 |
| Mule Creek | 1.50 |
| Notches | .65 |
| Big Muddy | 2.00 |
| Osage | 2.15 |
| Hamilton Dome | 1.80 |
| Pilot Butte | 1.75 |
| Torchlight-Greybull | 2.15 |
| Lander | 1.10 |

**Salt Creek**
**(Midwest Refining Company)**

| | |
|---|---|
| 29 to 29.9 gravity | 1.48 |
| 30 to 30.9 gravity | 1.56 |
| 31 to 31.9 gravity | 1.64 |
| 32 to 32.9 gravity | 1.72 |
| 33 to 33.9 gravity | 1.80 |
| 34 to 34.9 gravity | 1.88 |
| 35 to 35.9 gravity | 1.96 |
| 36 to 36.9 gravity | 2.04 |
| 37 to 37.9 gravity | 2.12 |

**Montana**

| | |
|---|---|
| Sunburst | 1.15 |
| Cat Creek | 2.15 |

### NEW MEXICO

| | |
|---|---|
| Artesia | 1.70 |
| Hogback | 1.95 |

### CANADIAN CRUDE

| | |
|---|---|
| Oil Springs | 2.70 |
| Petrolia | 2.63 |

*Bounty on Canadian crude is ¾ cent per gallon, or 26¼ cents per barrel.

# Roxana Has Shallow Producer on New Dome in Brazoria County

*By Wallace Davis*
*Staff Representative*

Houston, Texas.—The discovery of 24 Baume gravity crude at 542 feet 16 miles from former production in Brazoria County last week by the Roxana Petroleum Corporation promises to be the forerunner of a new field in the Texas Gulf Coast. At the same time the discovery scores another point for the torsion balance.

The Roxana's new find is in its Kropp No. 1, located 16 miles south of West Columbia, which spudded early in February on top of the Clemens dome as outlined by the torsion balance in May, 1925. Although the dome has not been encountered, operators believe they are in a sand above the cap rock.

With 300 feet of fluid standing in the 8¼-inch casing the well would not flow, and officials of the company have decided to drill deeper rather than make a small pumper. A slight gas pressure is present in the hole but not sufficient to make a flowing well.

The Clemens No. 1, first well started in the vicinity of the Clemens dome following the torsion balance location, is drilling at 3780 feet in rock, apparently off the edge of the dome. It is located 4507 feet southwest of the Kropp test.

A characteristic which strengthens the value of this section of Brazoria County as a probable productive area is the presence of the Allen dome five miles south of the Clemens dome, which was also located with the torsion balance. The Allen No. 1 test, first wildcat started after the outlining of the domes, entered the cap rock at 822 feet last October and was abandoned. The Allen No. 2, 1714 feet east of the No. 1, is drilling at 2270 feet in gumbo, showing promise of being off the side of the dome.

The two domes being developed by Roxana are described as the small, round type, resembling in many ways the Spindletop dome. The progress of development thus far in the two domes, less than a year known to coastal operators, indicates that pay will be obtained at a record rate around them due to the definite outlines furnished by geophysical methods.

The discovery of the Allen and Clemens domes brought the number of known salt domes in Brazoria County to seven besides the Hawkinsville dome just across the border line in Matagorda County and the Nash dome bordering on the Fort Bend-Brazoria County line. Clemens dome is located about 16 miles south of West Columbia and 30 miles of Damon Mound, 30 miles southwest of Hoskins Mound, 15 miles west of Stratton Ridge and 12 miles northwest of Bryan Heights.

Roxana will have practically full control of the development of acreage surrounding the Clemens and Allen domes, holding approximately 10,000 acres. The Texas Company has a 100-acre block leased 150 feet north of the Kropp test, while the next nearest acreage is more than a mile to the north, held by the Humble and Gulf Production Company. Vacuum Oil Company has several small blocks about a mile to the south and west of the discovery.

### Boling

At Boling The Texas Company completed its No. 4 on the Taylor 400-acre tract, 300 feet northwest of the discovery well, for a flush of 4700 barrels of 30 gravity crude. This new producer brings the field's producing list to three wells following the bridging over of the Atlantic's No. 2, which came in two weeks ago flowing wild. Production from the three wells during the week averaged around 6,500 barrels daily due to the heavy slump recorded in the discovery well's output following three completions near it. The Taylor 3, which flowed an initial of 10,000 barrels December 13 and which made an average of more than 4,000 barrels for two months after completion, fell off more than 1500 barrels in 10 days after the second completion in the field.

The No. 4 Taylor dropped from its initial to 3800 barrels five days after completion, while Atlantic's No. 2 made a daily average of between 500 and 600 barrels during the week.

The Sun Company's No. 1, an offset to Atlantic's No. 2, and approximately 600 feet northwest of the discovery well, set screen Tuesday night at 3060 feet, and was ready to complete Wednesday. Atlantic's No. 3, offset to the Humble's Hawes No. 1, struck a good show at 2970 feet and set eight-inch casing to that depth. Sinclair's No. 1, offset to Atlantic's No. 1 and the Texas Company's Nos. 4 and 6, is in an oil sand at 3074 feet. The Sun Company has a strong gas show in its No. 2, offset to Atlantic's No. 3 and Humble's Hawes 1, at 2917 feet.

The Gulf Production Company's Chase No. 1, about 4,000 feet southeast of the center of activity in the field, cored an oil sand early this week at 2586 feet in sandy lime, indicating it to be in the productive area. This test is drilling in the southwest side of the Gulf's Chase 60 acres 50 feet from the Vacuum line of its 50-acre tract.

Humble Oil & Refining Company during the past week made location for its Hawes Nos. 2 and 3 along the southeast line of the Humble-Gulf 124 acres to the northwest of production, the Nos. 3 and 4 along the Oxford lease and No. 6 offsetting the Vacuum. The No. 1 on this line was drilling at 2206 in gumbo and lime early this week. J. K. Hughes Development Company has made a location for No. 1 on its tract joining the Humble-Gulf tract on the northwest. The Sun Company has made location for its Nos. 3, 4 and 5, the first two as offsets to The Texas Company's Nos. 5 and 7 respectively and the No. 5 to offset Vacuum's Hooper 1, which is drilling below 1,000 feet in the northeast corner of Vacuum's Hooper 100-acre lease. More than 30 rigs are expected to be running in the field within the next 10 days.

| | Feb. 20 | Feb. 27 |
|---|---|---|
| Others | 4,550 | 4,650 |
| Total | 73,800 | 77,000 |
| **MONTANA** | | |
| Cat Creek | 3,050 | 3,050 |
| Sunburst | 11,650 | 15,200 |
| Total | 14,700 | 18,250 |
| **COLORADO** | | |
| Moffats (Craig) | 3,800 | 3,450 |
| Fort Collins | 2,450 | 2,700 |
| Florence | 400 | 400 |
| Others | 500 | 450 |
| Total | 7,150 | 7,000 |
| **NEW MEXICO** | | |
| Artesia | 3,400 | 3,300 |
| Hogback | 500 | 500 |
| Rattlesnake | 400 | 300 |
| Total | 4,300 | 4,100 |
| Total Rocky Mountains | 99,950 | 106,300 |
| **EASTERN** | | |
| Including Ill., Ind., Ky., Pa., Ohio, W. Va., and N. Y.) | 99,000 | 98,500 |
| **PRODUCTION SUMMARY** | | |
| East of Rockies | 1,199,200 | 1,218,000 |
| United States | 1,903,650 | 1,927,300 |

## New Medina County Pool To Have Rush Drilling

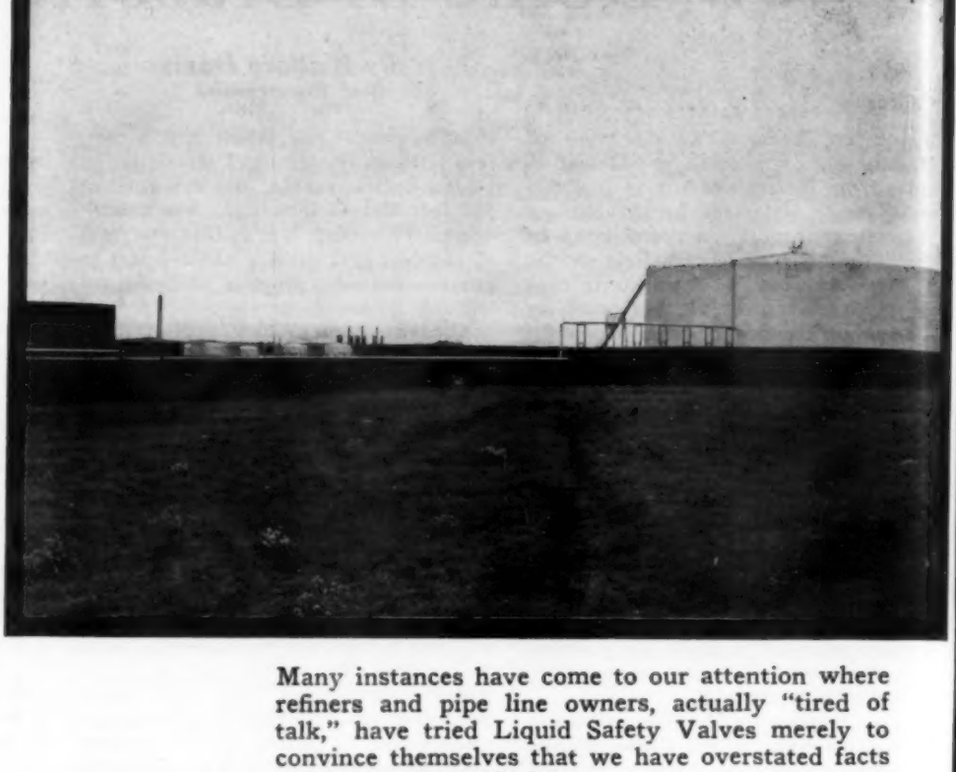
San Antonio, Texas.—An active drilling campaign has been launched in the territory around the Medina Oil Company's No. 1 Taylor, which opened a new pool recently in Medina County. The Medina Oil Company, Golden West Oil Company, several major companies and a few independent operators have started tests or made locations in the vicinity of the new producer.

# What Becomes of Your Stored Oil?

**If EVAPORATION gets it, then "heaven only knows" where it goes—There is a way to KEEP it, and to increase its value—**

***at low cost—***

**LIQUID SAFETY VALVES!**



Many instances have come to our attention where refiners and pipe line owners, actually "tired of talk," have tried Liquid Safety Valves merely to convince themselves that we have overstated facts concerning their efficiency.

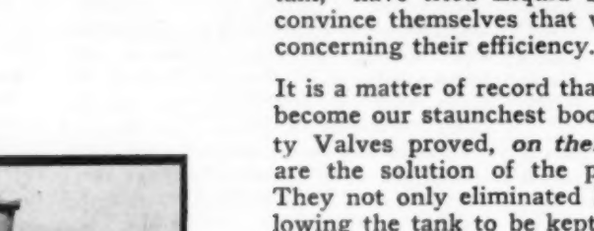
It is a matter of record that these same critics have become our staunchest boosters. For Liquid Safety Valves proved, ***on their tank roofs,*** that they are the solution of the problem of Evaporation. They not only eliminated Evaporation, but, by allowing the tank to be kept absolutely air-tight, increased the original gravity of the oil!

LIQUID SAFETY VALVES cost so little and do so MUCH, it is false economy to do without them. Write, please.

WESTCOTT & GREIS, Inc.

DALLAS TULSA LOS ANGELES





***Two types of installations—with and without vent lines***

*The top photo shows Liquid Safety Valves installed for use in connection with recovery systems. Simple, economical and fool-proof, yet offering the highest degree of efficiency. The bottom photo shows the Safety Valves without vent line. Note the hook-up. Both methods are installed under standard insurance specifications.*

WESTCOTT & GREIS INC. W&G MEASUREMENT & CONTROL

## *Suppose your tanks were filled with gold-*

# COMPLETIONS FOR PAST WEEK IN U.S. FIELDS

## Summarized Review of Field Results

| State— | Completions This Week | Completions Last Week | Producers This Week | Producers Last Week | Gas Wells This Week | Gas Wells Last Week | Failures This Week | Failures Last Week | Initial Production This Week | Initial Production Last Week |
|---|---|---|---|---|---|---|---|---|---|---|
| Arkansas | 13 | 16 | 11 | 10 | 2 | .. | .. | 6 | 2,340 | 690 |
| California | 10 | 18 | 8 | 18 | .. | .. | 2 | .. | 2,769 | 7,769 |
| Colorado | 2 | .. | .. | .. | .. | .. | 2 | .. | .... | ..... |
| Indiana | 5 | .. | 4 | .. | .. | .. | 1 | .. | 58 | ..... |
| Illinois | 16 | 4 | 11 | 1 | .. | .. | 5 | 3 | 310 | 2 |
| Kansas | 38 | 28 | 18 | 10 | 4 | 1 | 16 | 17 | 1,435 | 865 |
| Kentucky | 23 | 21 | 17 | 18 | 1 | 1 | 5 | 2 | 145 | 247 |
| Louisiana | 31 | 15 | 28 | 9 | .. | .. | 3 | 6 | 7,997 | 1,165 |
| Michigan | .. | .. | .. | .. | .. | .. | .. | .. | .... | ..... |
| Mississippi | .. | .. | .. | .. | .. | .. | .. | .. | .... | ..... |
| Montana | 5 | 1 | 2 | .. | 3 | .. | .. | 1 | 6,700 | ..... |
| New York | 4 | 9 | 4 | 9 | .. | .. | .. | .. | 8 | 28 |
| New Mexico | 8 | 1 | 5 | 1 | .. | .. | 3 | .. | 415 | 100 |
| Ohio | 27 | 23 | 10 | 19 | 12 | 4 | 5 | .. | 208 | 355 |
| Oklahoma | 68 | 81 | 39 | 43 | 7 | 7 | 22 | 31 | 11,726 | 21,985 |
| Pennsylvania | 32 | 45 | 30 | 36 | 1 | 7 | 1 | 2 | 451 | 722 |
| Tennessee | 1 | 2 | .. | .. | 1 | .. | .. | 2 | .... | ..... |
| Texas | 128 | 112 | 73 | 66 | 5 | 4 | 50 | 42 | 13,460 | 17,432 |
| Utah | .. | .. | .. | .. | .. | .. | .. | .. | .... | ..... |
| West Virginia | 40 | 24 | 11 | 7 | 24 | 10 | 5 | 7 | 161 | 70 |
| Wyoming | 9 | 4 | 9 | 4 | .. | .. | .. | .. | 10,045 | 550 |
| Totals | 460 | 404 | 280 | 251 | 60 | 34 | 120 | 119 | 58,228 | 51,980 |

NOTE—Following is the explanation of abbreviations, signs, etc., used in completion and wildcat reports: *—dry hole, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudding; sr—straight reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

## Texas

### ARCHER COUNTY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Jack Abernathy et al L. F. Wilson 3 | * | 1663 |
| Abercrombie-Looney et al R. T. Stewart 1 | * | 1403 |
| American Ref. Co. Portwood 6 | 15 | 1409 |
| Atlantic & Camp O. & G. Co. Rachuig | 100 | 1172 |
| Barkley-Meadows et al L. F. Wilson 20 | 80 | 1528 |
| British-American Oil Co. Rogers 12 | * | 1280 |
| Burns-Maxson et al McCrory 2 | 25 | 1588 |
| Bowers et al Darilek 1 | 80 | 1432 |
| Consolidated Oil Co. Kreeger 2 | * | 1453 |
| Craig-Wilson et al Longley 1 | * | 1215 |
| T. H. Gray et al Dr. Edwards 1 | * | 1710 |
| Goldsmith-Wolf et al Hamilton 1 | * | 1128 |
| Freeman-Hampton Oil Corp. Ferguson 18-A | 60 | 1590 |
| Ferguson 19-A | 50 | 1587 |
| Gulf Prod. A. P. Nichols 24 | 15 | 1558 |
| W. R. Dupriest 1 | * | 1552 |
| Oil Investment Fee 18 | 10 | 1413 |
| W. T. Richardson 9-A | 6 | 1466 |
| L. P. (Pink) Hammond et al Oldham 2 | 600 | 1371 |
| Humble O. & R. Co. L. F. Wilson 1-F | * | 1750 |
| Hunt-Siegler et al Cross 1 | * | 1445 |
| Magnolia Pet. Co. May Rutty 7 | 3 | 911 |
| Major Pet. Co. Wallace 1 | * | 1756 |
| Pandem Oil Corp. Hutcherson 7 | 60 | 1398 |
| Phillips Pet. Co. J. H. White 92 | * | 1630 |
| Primrose Ref. Co. & Pet. Prod. Co. Wold 5 | 100 | 1370 |
| J. J. Perkins et al Anderson 11 | 85 | 1431 |
| Ray-Featherstone Oil Corp. A. P. Nichols 16 | 5 | 1623 |
| A. P. Nichols 17 | * | 1628 |
| Ray-Massie et al First State Bank 1 | * | 1480 |
| Mel Richards et al Gin Lot 1 | * | 1501 |
| Riner-Bailey et al L. F. Wilson 2-C | * | 1645 |
| Shaw-Rathke et al L. M. Hayter 5-A | * | 1450 |
| Texhoma (Continental) O. & R. Co. Hamilton 6 | 70 | 1805 |
| The Texas Co. Andrews 2 | * | 1540 |
| White et al Megargel Townsite 1 | * | 1501 |
| Wichtex-Dixie Oil Co. A. P. Jackson 6 | * | 1558 |

### GULF COAST

| Company, Well and Location | Initial Production Bbls | Depth |
|---|---|---|
| **Saratoga—** | | |
| Paggi and Company No. 8 Lewis | * | 1500 |
| **Batson—** | | |
| Ada Belle Oil Co. Bradley 107 | 10 | 800 |
| S. R. Buchanan Oil Co. Millholme 86, wo | 20 | 1300 |
| **Goose Creek—** | | |
| Gulf Prod. Co. Wright 12-A, wo | * | 2490 |
| Humble Oil & Ref. Co. Ashbel-Smith 15, wo | 85 | 2250 |
| The Sun Co. B. Smith 15 | 200 | 2575 |
| **Sour Lake—** | | |
| M. E. Pevito Oil Co. Pevito 11 | 5 | 675 |
| **Hull—** | | |
| Gulf Prod. Co. J. C. Baldwin Fee 11, wo | 175 | 3050 |
| Republic Prod. Co. Dolbear 99, wo. | * | 2460 |
| Mecom Oil Co. Taylor 2, wo | 10 | 1700 |
| **Blue Ridge—** | | |
| West & Schenck West-Schenck 1 | * | 760 |
| **Spindletop—** | | |
| Gulf Prod. Co. Gladys 220 | 125 | 875 |
| **Orange—** | | |
| Edgerly Pet. Co. Carbello 11, wo. | 75 | 3170 |
| The Sun Co. Johnson 1 | * | 5700 |
| **Boling—** | | |
| Atlantic Oil Prod. Co. Taylor 1 | 800 | 3125 |
| The Texas Co. Taylor 4 | 4700 | 3250 |

### TEXAS MISCELLANEOUS

| Company, Well and Location | Initial Production Bbls | Depth |
|---|---|---|
| **Medina County—** | | |
| Golden West Oil Co. Schmidt 4 | 150 | 900 |

### LOUISIANA GULF COAST

| Company, Well and Location | Initial Production Bbls | Depth |
|---|---|---|
| **Edgerly—** | | |
| Gulf Ref. Co. of La. | 1200 | 3160 |
| **Evangeline—** | | |
| Jennings Pet. Co. S. F. S. 1 | 60 | 1660 |
| **Vinton—** | | |
| Marrs McLean Gray 9 | 1300 | 1600 |

### EASTLAND COUNTY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Magnolia Pet. Co. Pettit B-2 | 90 | 1495 |
| J. L. Hankins 9 | ¶5 | 2540 |
| The Texas Co. Bivins 1 | * | 1900 |

### BROWN COUNTY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Conway Bros. et al Chambers 4 | 230 | 1323 |
| Gillette et al Prather 6 | 25 | 1325 |
| McLester Oil Co. Woolridge 2 | 100 | 1233 |
| Mount et al Gaines 1 | 10 | 1343 |
| Mulloy-Chandler et al Prather 6 | 135 | 1288 |
| Schaffer-Wilson et al Prather 6 | 25 | 1319 |
| Simms Oil Co. Gaines 6 | 5 | 1275 |
| Inland Oil Co. Parker 1 | ¶1 | 1660 |

### COLEMAN COUNTY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Sunflower Oil Co. Gates 4 | * | 1100 |

### CLAY COUNTY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| A. H. Bevering et al Boddy 3 | 25 | 1309 |

### MONTAGUE COUNTY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Humphreys Corp. (now Texhoma) R. Hinds 3 | 125 | 963 |
| The Texas Co. J. B. Oldham 2 | 40 | 1378 |
| Ed. Wilcox et al C. R. Black 1 | * | 1585 |

### YOUNG COUNTY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Bridwell-Heydrick et al Boren 9 | † | 1075 |
| W. R. Farmer 1 | 35 | 1066 |
| Camp O. & G. Co. & Richards Campbell 1 | * | 974 |
| Carter et al Benson 1 | 35 | 933 |
| Clark et al Bishop 4 | 45 | 995 |
| Gulf Prod. Co. R. Campbell 4-A | 25 | 920 |
| Swastika Oil Synd. Wilson 1 | * | 1030 |
| Tidal-Hoffer Oil Corp. Campbell 20 | * | 940 |
| Underwood Drilling Co. Benson 1 | 30 | 876 |
| White et al Graham 1 | * | 1203 |

### SHACKELFORD COUNTY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Helf et al Blach Bros. 1 | * | 603 |
| Milham Corp. Taylor 1 | * | 925 |
| Phillips Pet. Co. Lynch 8 | ¶1½-160 | 3034 |
| Roberts-Chadwick & Payne Dowell 2 | * | 400 |
| Wells et al McLemore 1 | * | 1005 |

### STEPHENS COUNTY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Brown & Co. Akin 4 | ¶2 | 3230 |
| Magnolia Pet. Co. C. E. Akin 2 | ¶6 | 3099 |
| Mid-Kansas O. & G. Co. Lee 1 | 80 | 3692 |
| Mid-Texas Oil Co. Morrison 1 | ¶3 | 3173 |
| Price & Russell et al Bruce 6 | 55 | 2105 |

### BURKBURNETT

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Clopton-Willis et al W. T. Willis 1 | * | 1751 |
| Vannest Oil Co. MK&T Fee 19 | * | 1250 |

### K-M-A AND IOWA PARK

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Magnolia Pet. Co. Maer-Burnett 13 | 35 | 1762 |
| Panhandle Ref. Co. Jackson 4 | * | 1818 |
| Shappell Oil Co. McCarty 7-A | 25 | 1210 |

### GULF COAST

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| **Spindletop—** | | |
| Stella Oil Co. Hogg Swayne 19 .... | 10 | 860 |
| Tyson-Worder Oil Co. Chesson 3 ... | 8 | 830 |
| **Batson—** | | |
| Peer-Monarch Oil Co. Christian-Peer 1 . . ..... | 40 | 3250 |
| **Goose Creek—** | | |
| Humble Oil & Ref. Co. Simms-Smith 1 . . ..... | * | 5000 |
| **Hull—** | | |
| Gulf Prod. Co. J. C. Baldwin Fee 11 | 175 | 3050 |
| Phoenix Dev. Co. 57, wo . ..... | 75 | 2850 |
| Humble Oil & Ref. Co. Guedry 20. | 1900 | 3000 |
| Houston Prod. Co. Barngrover 10, wo | 125 | 3200 |
| Yount-Lee Oil Co. Merchant 13, wo | * | 4525 |
| **Orange—** | | |
| Gulf Prod. Co. Lee Hager Fee 20.. | 900 | 4600 |
| Brownie-Babbette Oil Co. McLean 4, wo . . ..... | 10 | 2875 |

### CENTRAL TEXAS

| | | |
|---|---|---|
| **Wortham—** | | |
| Humble Oil & Ref. Co. Finch 5.... | ¶ | 675 |

### TEXAS MISCELLANEOUS

| | | |
|---|---|---|
| **Luling—** | | |
| United North & South Oil Co. McKean 23 . . .....6000 | | 2150 |
| Allen 21 . . ..... | 400 | 2150 |
| Allen 22 . ..... | 400 | 2150 |
| Allen 23 . . ..... | 400 | 2150 |
| **Mirando—** | | |
| K. & S. Corp. Holbein 1 ..... | ¶60 | .... |
| Johnson & DeTray 1, sur 1012..... | ¶80 | .... |
| **Medina County—** | | |
| Golden West Oil Co. Schmidt 3 ... | 250 | .... |
| Eastham & Tarver Viola Wilson 2.. | 125 | .... |

### LOUISIANA GULF COAST

| | | |
|---|---|---|
| **Vinton—** | | |
| Gulf Ref. Co. of La. Star-Vincent 38 | * | 4100 |

## Louisiana

| | | |
|---|---|---|
| **Caddo Parish—** | | |
| Dixie Oil Co. Donovan 3, 21-22-15 | 20 | 1050 |
| Clark 1, 14-21-15 ..... | 17 | 1815 |
| Gulf Ref. Co. Ferry Lake 226, 16-20-16 . ..... | 325 | 2290 |
| Lewis Oil Corp. Vespy 5, 15-21-15.. | 15 | 1700 |
| Total, 4 wells ..... | 372 | |
| **Cotton Valley Field—** | | |
| Ohio Oil Co. Bodcau Lbr. Co. 35, 21-21-10 . ..... | 20 | 2580 |
| R. R. Cox 2, 15-21-10 ..... | 20 | 2559 |
| Hodges 1, 23-21-10 ..... | ¶4 | 4415 |
| **Homer Field—** | | |
| Gulf Ref. Co. West 17, 20-21-7..... | 8 | 1485 |
| **Urania Field—** | | |
| Atlantic Oil Producing Co. Tullos 2, 26-10-1e . ..... | 50 | 1523 |
| B. & B. Drilling Co. Russell 1, 26-10-1e . ..... | 100 | 1554 |
| O. W. Clark et al Miles 2, 25-10-1e | 350 | 1541 |
| Russell B-1, 26-10-1e ..... | 100 | 1559 |
| Daniels et al Tullos 1, 26-10-1e ....1000 | | 1552 |
| Dixie Oil Co. Urania Lumber Co. 2, 24-10-1e . ..... | 65 | 1573 |
| W. W. Hawkins Price 1, 25-10-1e .. | 150 | 1539 |
| Hunt et al Tullos 1, 26-10-1e ..... | 50 | 1489 |
| Louisiana Oil Ref. Corp. Bass 3, 24-10-1e . ..... | 150 | 1534 |
| Tremont B-7, 25-10-1e ..... | 25 | 1558 |
| Tremont B-17, 25-10-1e .....1800 | | 1536 |
| Tremont B-25, 25-10-1e ..... | 240 | 1534 |
| Tremont B-26, 25-10-1e ..... | 240 | 1531 |
| Natural Gas & Fuel Corp. Tullos 6, 25-10-1e . ..... | 75 | 1522 |
| Standard Drilling Co. Clinton 1, 26-10-1e . ..... | 500 | 1551 |
| Standard Oil Co. Urania Lumber Co. 1, 19-10-2e ..... | 75 | 1567 |
| Urania Lumber Co. 2, 19-10-2e.. | 25 | 1570 |
| O. F. Whittaker King 1, 36-10-1e.. | 50 | 1538 |
| Total, 18 wells .....5045 | | |

## Arkansas

| | | |
|---|---|---|
| **Irma Field, Nevada County—** | | |
| Bemis et al Ellis 1, 2-14-21..... | 300 | 1170 |
| Smitaherman & McDonald Waters 2, 2-14-21 . ..... | 225 | 1150 |
| Total, 2 wells ..... | 525 | |
| **Stephens Field, Ouachita County—** | | |
| Buffalo Oil Corp. Morgan 4, 22-15-19 | ¶10 | 1550 |
| **Lisbon Field, Union County—** | | |
| Rovenger Oil Corp. Goodwin 1, 16-17-16 . .....50 | | 2108 |
| Wingfield et al Slaughter 1, 9-17-16. | 400 | 2084 |
| Total, 2 wells ..... | 450 | |
| **Smackover Field, Ouachita County—** | | |
| Gulf Ref. Co. Bennett 9, 33-15-15.. | 90 | 2374 |
| Humble O. & R. Co. F. A. & B. T. Laney 5, 32-15-15 ..... | 370 | 2400 |
| Owenwood Oil Corp. Snyder 1, 34-15-15 . ..... | 215 | 2375 |
| **Smackover Field, Union County—** | | |
| Houston Oil Co. Hinton 7, 5-16-15.. | ¶40 | 2650 |
| Keever et al's Sanford 4, 17-16-15.. | 600 | 2473 |
| Ramage et al Cook 3, 16-16-15..... | 75 | 2490 |
| Smitherman & McDonald Holloway 1, 6-16-16 . ..... | 5 | 2270 |
| The Texas Co. Alphin 9, 3-16-15.... | 10 | 2559 |
| Total, 8 wells .....¶40-1365 | | |

## Kansas

| | | |
|---|---|---|
| **Butler County—** | | |
| Empire G. & F. Co., Hegbert 84, C N ½ NW 28-25-5 ..... | 20 | 657 |
| John Rogers' Bitler 8, C W L SW NW 29-26-8 ..... | 50 | 2739 |
| Empire G. & F. Co.'s King 15, NWc SW NW 36-27-4 ..... | 100 | 2553 |
| Day et al, Seward 1, NEc NW NW 2-27-7, owd . ..... | * | 2788 |
| White Eagle O. & Ref. Co., Tavender 1, SWc SE NW 25-28-6 ..... | * | 3382 |
| Atlantic O. Prod. Co., Sesenbaugh 2, NEc SE SW 15-28-7 ..... | * | 3244 |
| **Chase County—** | | |
| Redd et al, Eggan 1, NWc SE 17-22-9 ..... | * | 2635 |
| **Elk County—** | | |
| Roth & Co., Porter 13, CEc NE SW 12-29-9 ..... | 40 | 2057 |
| Gillespie, Welch 1, SEc SW NW 29-31-11 ..... | ¶2 | 1960 |
| **Greenwood County—** | | |
| Empire G. & F. Co., Killison 6, SEc SW NW 14-22-11 ..... | 75 | 1933 |
| Simmons et al, Frankhauser 1, NWc NE NW 4-22-12 ..... | 250 | 1897 |
| Manhattan Oil Corp., Green 20, NEc NW SE 10-23-9 ..... | 100 | 2366 |
| Pure Oil Co., Mason 6, NWc SW NW NW 26-23-10 ..... | 40 | 2310 |
| Roth, Faurot and Mission Oil Co., Thrall 4, C E½ W½ NE 27-23-10 | 10 | 2370 |
| Theta Oil Co., Schneider 22, NWc 10-23-13 ..... | 25 | 1560 |
| McGinnis et al, Wiggings 3, NEc SW 30-24-11 ..... | 200 | 1789 |
| Mid Kansas O. & G. Co., Ladd 6, NWc SW SW NW 20-25-9 ..... | 150 | 2392 |
| Roth & Faurot, O'Conner 1, SWc SE 2-26-11 ..... | ¶2 | 625 |
| Prairie O. & G. Co., Blackwell 3, C S L NE 16-24-13 ..... | 60 | 1654 |
| Empire G. & F . Co., Scott 10, SWc NE SE 24-23-8 ..... | * | .... |
| Roth & Faurot, Stroughton 2, SEc NW SE SE 9-23-10 ..... | * | 2330 |
| **Lyon County—** | | |
| Ritchey & Moore, Pixlee 5, SWc SE SW 34-21-10 ..... | 150 | 2224 |
| Phillips Pet. Co., Pedroja 2, SEc NE SE 32-21-12 ..... | 20 | 1925 |
| Lauck 4, NWc SW SW 33-21-12 . | 20 | 1930 |
| Lauck 6, SEc NW SW 33-21-12 .. | 100 | 1930 |
| Abel et al, Richards 1, NWc 7-21-10 | * | 2425 |
| Ritchey & Moore, Pixlee 2, NEc SE SW 34-21-10 ..... | * | 2612 |
| Phillips Pet. Co., Lauck 5, NWc NE SW 33-21-12 ..... | * | 1964 |
| **Montgomery County—** | | |
| Superior Oil Co., Painter 1, NWc NE SE 12-33-16 ..... | 25 | 1281 |
| Weible et al, Davis 1, SEc NW NE 30-33-16 . ..... | ¶1 | 1057 |
| Ed Kerns, City of Coffeyville 1, SWc NE SW 1-35-16 ..... | ¶7 | 919 |
| Morgan et al, Miller 1, NEc SW 23-33-14 ..... | * | 1740 |
| Wilkins et al, Zutzs 1, NEc SE SE 11-33-16 ..... | * | 1390 |
| Canary, Yoe 2, C S L SE NE 31-34-15 ..... | * | .... |
| Connell et al, Reed 1, SEc NW 31-34-15 ..... | * | 1690 |
| Dabney et al, Rig 1, SWc NE 22-34-16 . ..... | * | .... |
| Keystone Oil Co., Taylor 1, NEc SE NW 5-35-15 ..... | * | 125 |
| **Woodson County—** | | |
| Fields et al, O'Neil 1, NEc SE 9-23-13 ..... | * | 1710 |

## Oklahoma

| | | |
|---|---|---|
| **Carter County—** | | |
| Schermerhorn Oil Co., Cruce 1, C SE SE NW 34-1-3 ..... | 225 | 3159 |
| Merrick-Kirk, Cobb 4-A, NWc SW 5-3-2 ..... | 60 | 3346 |
| Simpson & Fell. Lowery 2, NWc SE SW NW 9-4-2 ..... | * | 2858 |
| Amerada Pet. Corp., Ledbetter 3, C E L W½ NW NW 34-5-1 ..... | * | 1349 |
| **Creek County—** | | |
| Phillips Pet. Co., Sarty 4, NEc NW SW 13-14-8 ..... | 35 | 2400 |
| Tidal Oil Co., Dickson 3, SEc NE NW 19-17-10 ..... | 13 | 2147 |
| J. H. Wright, Kochaney 2, NWc SE SE 23-17-10, owd ..... | 460 | 2502 |
| Gladys Belle Oil Co., Johnson 3, NWc SW SW 17-14-10 ..... | 350 | 2856 |
| Cole & Shaffer, Stone 1, NEc NW NW 4-17-11 ..... | * | 2466 |
| Slater Bros. et al, Barnett 2, C E L NW SE 34-16-9, owd ..... | * | 2996 |
| Skelly Oil Co., Berryhill 1, NEc SE NE 11-16-11 ..... | * | 2616 |
| Independent O. & G. Co., Cover 2, NWc SW SE 29-15-10 ..... | * | 3276 |
| Skelly Oil Co., Bruner 2, NEc NW SE 29-15-10, owd ..... | * | 3665 |
| Quinland et al, Johnson 2, SEc NW SW 17-14-10 ..... | * | 3457 |
| **Garvin County—** | | |
| Homaokla Oil Co., Franklin 3, SEc SW NW SW 11-1-3 ..... | 20 | 1623 |
| **Hughes County—** | | |
| Empire G. & F. Co., Proctor 4, C SE SE NW 26-9-9 ..... | 400 | 3430 |
| Transcontinental & Independent, Harjo 6, C SW NW SW 26-9-9 ..... | 50 | 3418 |
| Brock, Bruner 1, C SW SW NW 28-7-8 ..... | 120 | 4340 |
| Independent O. & G. Co., Hill 1, C SE NE NE 27-9-9 ..... | * | 3465 |
| **Kay County—** | | |
| Comar Oil Co., McCormick 2, SWc SE 21-29-1w ..... | 230 | 2108 |
| C. B. Davis, Townsite 1, Block 2, Lot 2, 8-28-1 ..... | 60 | 3542 |
| Tidal Oil Co., Boggs 2, C NW SE 8-27-1 ..... | ¶16 | 3470 |
| Marland Oil Co., Thomas 4-A, C NW SW SW 15-25-2 .....3002 | | 4062 |
| Carter Oil Co., Turk 4, C NW NE NE 21-25-2 ..... | 90 | 4208 |
| Clair & Smith, Kreger 1, SEc NE 4-25-2 ..... | * | .... |
| Marland Oil Co. & Phillips Pet. Co., Stahl 1, C NW NW SW 22-25-2 | * | 4817 |
| **Lincoln County—** | | |
| Mid-Cont. Pet. Corp., Earp 2, SWc NW NW 8-15-8 ..... | 967 | 4035 |
| Carter Oil Co., Tuttle 4, SEc NW NE 2-14-5 ..... | 85 | 3404 |
| Magnolia Pet. Co., Sukovaty 13, NEc NW SW 2-14-5 ..... | 200 | 3387 |
| Skelly Oil Co., Hopkins 5, SWc SE NE 2-14-5 ..... | 720 | 3368 |
| Texas Co., Hopkins 4, NWc SW SE 2-14-5 .....1100 | | 3355 |
| Hopkins 6, SEc NW SE 2-14-5.. | 625 | 3381 |
| Southwestern Pet. Co., Robertson 1, NWc NE 11-14-5 ..... | 962 | 3411 |
| Prairie O. & G. Co., Stout 16, SWc NW NW 3-14-5 ..... | 225 | 3457 |
| Price 1, NEc NE SE 7-15-6 ..... | 20 | 4079 |
| **Noble County—** | | |
| Wentz Oil Corp., Wilkins 10, C SE SE SE 30-24-1, owd ..... | * | 4525 |
| Belt Pet. Co., Theile 1, C SE SE 29-21-1 ..... | * | 1723 |
| **Okfuskee County—** | | |
| Amerada Pet. Corp., Harjo 11, SEc NW 13-12-11 ..... | 282 | 3362 |
| Empire G. & F. Co., Grayson 1, NWc NE NW NE 30-11-10, owd ..... | ¶17 | 2965 |
| Windsor Oil Co., Guy 7, C N L SW 29-21-11 ..... | * | 4040 |
| **Okmulgee County—** | | |
| Vierson O. & G. Co., Claunch 2, SEc | | |

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**GUIBERSON**

BETTER BE SAFE THAN SORRY

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| NE NW NW 35-15-12 | ¶18 | 1903 |
| T. A. Johnson, Havercamp 3, SWc NW SW NW 22-14-12 | 150 | 1984 |
| H. C. Marcey et al, Morton 4, C W L SE NW 8-13-12 | 150 | 2220 |
| Independent O. & G. Co., Clark 1, SEc NE NW 18-12-12 | 200 | 2546 |
| J. E. Wallace, Colbert 2, NEc NW NW 14-14-14, owd | 20 | 1802 |
| F. D. Misener, Flint 4, C E L SE SE 24-14-14 | 8 | 1198 |
| Wineland et al, Anderson 12, NEc SE NE SE 8-14-15 | ¶4 | 1488 |
| C. H. Lebow, Doyle 11, C E L NE SW 15-13-14 | 590 | 2442 |
| F. E. Cuseck, Wiley 2-A, NWc SW NE 29-13-14 | 100 | 1669 |
| Pulaski Oil Co., Bruner 10, NWc SW SW 36-12-13 | 50 | 2907 |
| Holmes et al, Hawkins 1, SEc 31-16-13 | * | 2492 |
| G. & M. Oil Co., Naylor 1, C E L SW 19-15-12 | * | 2785 |
| G. D. Terrien, Sneed 1, SEc NE NW 31-15-13 | * | 2738 |
| A. W. Cline, Campbell 5, SEc SW NW 19-15-14 | * | 2547 |
| Magnolia Pet. Co., Thomas 10, NEc NW 1-11-13 | * | 3220 |
| **Pawnee County—** | | |
| Gypsy Oil Co., Norman 13, C S L NE NE 35-21-8, owd | 7 | 2402 |
| Prairie O. & G. Co., Burton 5, SWc 15-20-6, owd | 25 | 3125 |
| Gypsy Oil Co., Norman 3, C N L NW NE 35-21-8, owd | * | 2638 |
| Norman 15 SWc NW NE 35-21-8 | * | .... |
| **Sequoyah County—** | | |
| H. B. Lyman, Fee 1, NEc SW 15-11-26 | ¶4 | 2285 |
| **Seminole County—** | | |
| S. W. Pet. Co., Peter 1, C NE SE NE 18-9-8 | 60 | 3336 |
| **Tulsa County—** | | |
| Holmes et al, Baughman 2, NWc NE NW 22-19-11 | 30 | 2256 |
| Chandless et al, Hobbs 1-A, NWc SE NE 17-18-13 | 5 | 1633 |
| Enfisco Oil Co., Berryhill 16, NWc SE SW 18-17-13 | 15 | 1796 |
| Prairie O. & G. Co., Barnes 4, NEc SW 4-16-13, owd | 15 | 2124 |
| Suppees et al, Simopoke 1, NEc NW SE 9-16-12 | * | .... |
| **Wagoner County—** | | |
| Neal & Cartwright, Childers 2, NWc 35-18-16 | ¶2 | 635 |
| G. S. Wilson et al, Lewis 1, SEc NE SW 11-16-16 | ¶7 | 808 |

## California

| | | |
|---|---|---|
| **Long Beach—** | | |
| Craig-Burns Oil Co.'s Cerritos 15 | 225 | 4479 |
| **Athens-Rosecrans—** | | |
| W. H. Fishers' Athens 12 | 500 | 5100 |
| Gerner & Ball's Athens 2 | * | 4370 |
| **Baldwin Hills-Inglewood—** | | |
| Associated Oil Co.'s Vickers 34 | 170 | 2177 |
| Pacific Oil Co.'s Baldwin 36 | 1340 | 2197 |
| **Newport-Costa Mesa—** | | |
| F. A. Winchester | * | 2810 |
| **Midway—** | | |
| General Pet. Corp.'s Government 2.. | 144 | 2520 |
| King G. Gillette's B 1 | 40 | 1085 |
| Honolulu Consolidated Oil Co.'s 52 | 50 | 3526 |
| Pacific Oil Co.'s 49 | 300 | 4050 |

## Mountain States

### WYOMING

| | | |
|---|---|---|
| **Salt Creek—** | | |
| Midwest Refining Co. No. 13L SE¼, 23-40-79 | 9000 | 2484 |
| Wyoming Oil Fields Co. No. 30 NW¼, 2-39-79 | 110 | 1165 |
| No. 20 SW¼, 24-40-79 | 125 | 1101 |
| Midwest Oil Co. No. 2 SW¼, 26-40-79 | 60 | 1120 |
| No. 12 SE¼ 27-40-79 | 50 | 1205 |
| Wyoming Associated Oil Co., No. 32 SE¼, 35-40-79 | 125 | 1317 |
| No. 24 SW¼ 23-40-79 | 175 | 1140 |
| No. 25 SE¼ 25-40-79 | 100 | 1265 |
| No. 25 SW¼ 26-40-79 | 300 | 1120 |

### MONTANA

| | | |
|---|---|---|
| **Kevin-Sunburst—** | | |
| Fertig Oil Co., No. 4A NW¼ 35-35-2 | ¶ | 1504 |
| Kevin-Washington Oil Co. No. 2S, 36-35-3 | ¶ | 1259 |
| Dakota-Montana Oil Co. No. 2 NW¼ 31-25-1 | 4000 | 1442 |
| Homestate Exploration Co. No. 5S NE¼ 36-35-2 | 2700 | 1440 |
| **Havre—** | | |
| Havre Natural Gas Co., No. 27, 21-32-16 | ¶ | 1000 |

### NEW MEXICO

| | | |
|---|---|---|
| **Artesia—** | | |
| Ohio Oil Co. No. 8N 4-18-28 | 75 | 2350 |
| No. 1K 16-18-28 | * | 3420 |
| Frontier Petroleum Co. No. 11 SW¼ 4-18-28 | 150 | 2290 |
| Levers-Wilson Co. No. 2 18-18-28 | 40 | 2090 |
| Flynn Welch & Yates No. 35A 9-18-28 | 50 | 2200 |
| **Rattlesnake—** | | |
| Continental Oil Co. No. 14 | 100 | 860 |
| **Chaves County—** | | |
| Southern Exploration Pet. Co. No. 1, 15-15-29 | * | 3120 |
| Shaffer Oil & Ref. Co. No. 1, 25-13-26 | * | 2300 |

### COLORADO

| | | |
|---|---|---|
| **Wellington—** | | |
| Seneca Oil Co. No. 1 NW¼ 8-9-68 | * | 540 |
| Wellington Oil Co. No. 1, 24-9-69 | * | 2390 |

## Eastern States

### PENNSYLVANIA

| | | |
|---|---|---|
| **Bradford Field—** | | |
| South Penn Oil Co. Bingham 533, tract 79 | 3 | .... |
| Hodge 2 | 2 | .... |
| N. W. Mining Exchange 52 | 2 | .... |
| Petroleum Reclamation Co. Pratt 11 | 4 | .... |
| Hope Oil Co. Richardson 1 | 2 | .... |
| Ostrander & Co. Lovell 1 | 3 | .... |
| T. P. Thompson Gelpin 1 | 3 | .... |
| T. H. Given Given 11 | 3 | .... |
| Dana & Dane, Fee 38 | 3 | .... |
| Hilliard & Dodge Dodge 18 | 2 | .... |
| G. C. Hanna Hanna 1 | 2 | .... |
| Denwood Oil Co. Garlock 1 | 2 | .... |
| Leech, Wolfe & Co. Rew 1 | 2 | .... |
| Devore & Co. Monroe 1 | 2 | .... |
| C. W. Henretta & Co. Bingham 423, tract 1 | 2 | .... |
| W. S. Jones & Son Bingham 1 | 3 | .... |
| Carson & Whitehead Boyd 1 | 3 | .... |
| L. A. & A. L. Lilly Middaugh 8 | 3 | .... |
| Fitzgibbon & Wilson Bingham 381, tract 79 | 3 | .... |
| T. B. Wilson Borden 1 | 3 | .... |
| **Venango County—** | | |
| Porter, Hovis & Co. Edinger 5 | 2 | .... |
| H. J. Hoffman Cross 16 | 2 | .... |
| Nusbaum & Goldstein Nelson 12 | 2 | .... |
| S. P. McCalmont Estate McCalmont 49 | 3 | .... |
| **Greene County—** | | |
| Consumers Gas Co. G. W. Rutan 1 | 200 | .... |
| Natural Gas Co. of W. Va. Louis Powers 2 | 175 | .... |
| **Allegheny County—** | | |
| Harbison & Co. Withrow 1 | 5 | .... |
| Leidecker & Gosser Shenot 4 | 3 | .... |
| **Clarion County—** | | |
| Kribbs, Wentling & Co. Best 2 | 2 | .... |
| Morgan & Conover Jordan 1 | ¶1 | .... |
| **Butler County—** | | |
| Smith, Christie & Co. Henderson 2 | 2 | .... |
| Charles Rumbaugh Clark 1 | * | .... |

### NEW YORK

| | | |
|---|---|---|
| **Allegany County—** | | |
| State Bank of Bolivar Fee 29 | 2 | .... |
| Empire Gas & Fuel Co. Fee 2 | 2 | .... |
| Bert Maitland & Co. Fee 29 | 2 | .... |
| Citizens National Bank Fee 52 | 2 | .... |

### WEST VIRGINIA

| | | |
|---|---|---|
| **Ritchie County—** | | |
| Rawe Bros. Lowther Bros. 5 | 50 | .... |
| Starcher & Thornily Mary E. Metz 1 | * | .... |
| Southern Oil Co. D. L. Kimble 1 | ¶½ | .... |
| C. W. Baker & Co. James Hardman 1 | ¶1 | .... |
| Lucky Day Oil & Gas Co. J. A. Maxwell 1 | ¶1 | .... |
| South Penn Oil Co. Clyde Atkinson 2 | 3 | .... |
| **Lincoln County—** | | |
| Union Oil and Gas Co. G. F. Porter 1 | ¶1 | .... |
| Transylvania Pet. Co. C. Gillenwater 1 | ¶¼ | .... |
| E. M. Adkins 2 | ¶¼ | .... |
| L. R. Sweetland W. L. Adkins 3 | ¶1 | .... |
| Maul Rock Oil & Gas Co. J. M. Lucas 1 | ¶1 | .... |
| Dave Fox G. O. Gillenwater 1 | ¶1 | .... |
| **Calhoun County—** | | |
| McIntosh & Scott Homer Sampson 1 | 5 | .... |
| Hope Natural Gas Co. G. W. Dye 1 | ¶2½ | .... |
| Louis Vanoy 1 | ¶2 | .... |
| J. L. Mayfield & Co. A. H. Stump 1 | ¶2 | .... |
| **Gilmer County—** | | |
| Hope Const. & Ref. Co. J. R. Summers 1 | 5 | .... |
| Satterfield & Co. W. E. Maxwell 1 | ¶2¼ | .... |
| Pittsburgh & West Va. Gas Co. A. M. Springton 1 | ¶2 | .... |
| Hope Natural Gas Co. M. B. Bush 1 | * | .... |
| **Clay County—** | | |
| South Penn Oil Co. Joseph Belcher 1 | 40 | .... |
| O. D. Stockley 11 | 40 | .... |
| **Boone County—** | | |
| South Penn Oil Co. Yawkey-Freeman 20 | ¶¼ | .... |
| Fannie White 1 | ¶3¼ | .... |
| Owens Bottle Machine Co. Cassingham Co. 5 | ¶½ | .... |
| **Harrison County—** | | |
| Patterson Fork Oil Co. R. T. Lowndes 16 | 2 | .... |
| Furmers Oil Co. Fee 1 | ¶¼ | .... |
| **Pleasants County—** | | |
| Rice Oil Co. B. D. Cooper 1 | ¶¼ | .... |
| J. E. Bramer 1 | ¶¼ | .... |
| **Roane County—** | | |
| Heck Oil Co. J. W. Conley 2 | * | .... |
| Godfrey L. Cabot Sarah Tucker 1. | ¶¼ | .... |
| **Wirt County—** | | |
| Brown Farm Oil Co. A. T. Brown 3 | 10 | .... |
| **Doddridge County—** | | |
| Hope Const. & Ref. Co. Unknown 1 | 2 | .... |
| **Monongalia County—** | | |
| Dunn Mar Oil & Gas Co. Mary Tennant 1 | 3 | .... |
| **Mason County—** | | |
| Ohio Fuel Oil Co. H. F. Fry 1 | 1 | .... |
| **Lewis County—** | | |
| E. G. Smith & Co. Martin J. Whalen 1 | ¶5 | .... |
| **Wayne County—** | | |
| Newcomb Oil & Gas Co. Kish Napper 3 | ¶½ | .... |
| **Cabell County—** | | |
| Lewis R. Sweetland Frank Fowble 1 | ¶¼ | .... |
| **Wetzel County—** | | |
| Manufacturers Light & Heat Co. Wm. Riter 1 | * | .... |
| **Tyler County—** | | |
| O. H. Hayes & Co. Christie heirs 1 | * | .... |

### KENTUCKY

| | | |
|---|---|---|
| **Barren County—** | | |
| Consolidated Gas Co. H. Duff 12 | 9 | .... |
| Richardson Farm Oil Co. Richards 3 | 15 | .... |
| Glasgow Oil & Ref. Co. White 2 | 25 | .... |
| Hiland Oil Co. Cassidy 13 | 12 | .... |
| Lew J. Emery Sons Co. Wells 2 | 3 | .... |
| Ziegler Bros. Drinon 12 | 6 | .... |
| Houchins Oil Co. Gum 4 | 3 | .... |
| **Owensboro District—** | | |
| Leeper Oil Co. S. Colyer 6 | * | .... |
| Loman & Bolling George Midkiff 1 | * | 841 |
| C. E. Daugherty Lucinda Crow 8 | 25 | .... |
| **Allen County—** | | |
| J. J. Sayer Sue Moore 18 | 5 | 340 |
| Harley & Cyphers L. Oliver 2 | 3 | 260 |
| Keystone Securities Co. Edmonds 17 | * | 449 |
| **Warren County—** | | |
| Wood Oil Co. Grimes 12 | 5 | 1126 |
| T. A. Sheridan G. Davenport No. 3, tract 3 | 5 | 1150 |
| **Lawrence-Johnson Counties—** | | |
| William Stone & Co. Ira Lester 10 | 8 | .... |
| **Johnson-Magoffin Counties—** | | |
| R. G. Gillespie Mary Burke 6 | 8 | .... |
| **Lee-Owsley Counties—** | | |
| Combs Dev. Co. Logan Combs 1 | 7 | .... |
| **Simpson County—** | | |
| Reagle & McMullen John Pierce 1 | 5 | .... |
| **Jackson County—** | | |
| Fowler Bros. Petroleum Co. & Carroll Sparks heirs 2 | 1 | .... |
| **Wayne County—** | | |
| Marsh & Shearer J. Cooper 1 | * | .... |
| **Floyd County—** | | |
| Ohio Fuel Oil Co. Elkhorn Coal Co. 3 | ¶2½ | .... |

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COMPANY
Tulsa Okla

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Perkins MacIntosh Petroleum Tool & Boring Co., Ltd., 25 Bishopsgate
Cable Address:
"Oleborers" London

TEXAS OFFICE:
511 State Nat'l Bank Bldg., Houston, Texas
820 Staley Bldg., Wichita Falls, Texas

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| **Elliott County—** | | |
| J. M. McDonald Fairview School land 1 | * | 764 |
| **TENNESSEE** | | |
| **Putnam County—** | | |
| Clark & Co. Double Springs 2 | ¶2½ | .... |
| **SOUTHEASTERN OHIO** | | |
| **Washington County—** | | |
| Muskingum Gas Co. C. D. Ford 1 | ¶½ | .... |
| Kate Deming 1 | ¶1 | .... |
| W. M. Leeper 9 | ¶½ | .... |
| Central Nat. Bank Marietta D. Shenkle 3 | ¶2½ | .... |
| Reaman & Co. Mary Kelley 1 | ¶2 | .... |
| **Morgan County—** | | |
| The Sun Co. C. E. Swyster 15 | 20 | .... |
| Bowman Oil & Gas Co. O. M. Lovell 1 | ¶2 | .... |
| **Belmont County—** | | |
| Carnegie Oil & Gas Co. Yeso Coal Co. 1 | 3 | .... |
| **Noble County—** | | |
| Charles Nott & Co. H. W. Boyd 1 | * | 700 |
| **CENTRAL OHIO** | | |
| **Perry County—** | | |
| John Denman & Son A. & M. McGovern 18 | 10 | .... |
| Kachelmacher Estate Hemlock Coal Co. 2 | 20 | .... |
| Pearson Oil & Gas Co. Loran H. Pearson 1 | 15 | .... |

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Ohio Fuel Oil Co. O. E. Campbell 1 | * | .... |
| **Meigs County—** | | |
| E. H. Rood & Co. W. J. Keider 2 | 15 | .... |
| R. G. Gillespie Lucius Cross 8 | ¶1½ | .... |
| P. L. Clinton & Co. Earnest McBride 1 | ¶¼ | .... |
| **Athens County—** | | |
| Ohio Oil & Gas Co. Clinton Atkinson 3 | 15 | .... |
| C. E. Nuzum Edward Burke 1 | ¶¼ | .... |
| Firebolt & Cross C. H. & J. Kern 1 | * | .... |
| **Lorain County—** | | |
| Ohio Fuel Gas Co. L. & J. Sabin 1 | ¶½ | .... |
| W. C. Jasper 1 | ¶½ | .... |
| **Holmes County—** | | |
| East Ohio Gas Co. J. R. Forgy 5 | 30 | .... |
| **Coshocton County—** | | |
| The Pure Oil Co. Agnes Hall 4 | 20 | .... |
| **Guernsey County—** | | |
| Keith Bros. Co. Keith Bros. 1 | ¶1¼ | 3197 |
| **Columbiana County—** | | |
| Pittsburgh Interests Harry Miller 1 | * | .... |
| **Cuyahoga County—** | | |
| McGrath & Co. C. Reep 1 | * | .... |
| **NORTHWESTERN OHIO** | | |
| **Wood County—** | | |
| Ohio Oil Co. Caleb Mercer 12 | 60 | 1454 |
| **INDIANA** | | |
| **Pike County—** | | |
| Murphy Oil Co. Stewart Bros. 2 | 25 | 975 |

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Consolidated Oil Dev. Co. August Yager 2 | * | 1341 |
| Rendal & Chandler Miley heirs 1 | 22 | 1390 |
| **Knox County—** | | |
| Murphy Oil Co. W. E. Harrison 3 | 8 | 1236 |
| **Gibson County—** | | |
| Ohio Oil Co. J. E. Zimmerman 8 | 3 | 1532 |
| **ILLINOIS** | | |
| **Wabash County—** | | |
| Miller, Healey & Co. E. Bass 1 | 200 | 1552 |
| Silurian Oil Co. J. H. Cicil 2 | 20 | 1115 |
| J. S. Young & Co. Steorgan 2 | 18 | 1426 |
| J. W. Price heirs 1 | * | 1612 |
| Ballard & Andrews Catherine Kayser 2 | 8 | 1425 |
| Risley & Co. L. G. Stillwell 1 | 10 | 1428 |
| Mayhugh & Skidmore John Kogan heirs 3 | 15 | 1410 |
| Hope Oil Co. W. M. Banks 3 | 5 | 1375 |
| Phipps & Blosser J. McClain 2 | * | 1550 |
| Ellison & Co. J. W. Price estate 1 | * | 1620 |
| Mahutska Oil Co. J. F. Stillwell 4 | * | 1458 |
| Hartman & Co. Jesse Cicil 1 | * | 1450 |
| **Crawford County—** | | |
| Ohio Oil Co. I. H. Miller 3 | 14 | 992 |
| Selby-Cisler Producing Co. Reaville 27 | 1 | 991 |
| **Clark County—** | | |
| Thomas Stewart B. Bailey 3 | 16 | 540 |
| **Marion County—** | | |
| Alspach & Co. Marion County Coal Co. 1 | 3 | 690 |

# WILDCATS FROM ALL SECTIONS

## Central West Texas Wildcats

### COMPLETIONS

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| **Crockett County—** | | |
| Humphreys Corp. University 1 | * | 3003 |
| **Reagan County—** | | |
| Big Lake Oil Co. University 52 | 400 | 2962 |
| University 53 | 200 | 3057 |
| Milham Corp. University 1 | * | 3350 |

### DRILLING REPORT

**COKE COUNTY**—Lipan Oil Co.'s E. C. Rawlings 1, set 15½-inch cas 448 ft.

**CONCHO COUNTY**—R. C. Dutton et al's W. O. Schultz 1, dr 400 ft.

**CRANE COUNTY**—Cordona Oil & Potash Co.'s Cowden 1, sd 3571 ft. J. S. Cosden et al's Connell 1, spd and sd. Church-Fields et al's University 1, top salt 1145 ft, dr 1880 ft. Independent O. & G. Co. et al's Len Taylor 1, elevation 2476 ft, top salt 450 ft, sd flowing oil by heads 2038-40 ft. Marland Oil Co.'s Cowden 1, elevation 2490 ft, top salt 800 ft, dr 1200 ft, Penn-Texas Dev. Co.'s Cowden 1, dr 2955 ft. Texas Dev. Co.'s Cowden 1, sd 3710 ft. F. P. Zoch et al's S. Keith 1, elevation 2594 ft, top salt 728 ft, dr 960 ft.

**CROCKETT COUNTY**—J. S. Cosden et al's Noelke 1, elevation 2332 ft, dr 1950 ft. Carl Cromwell et al's L. P. Powell 1, elevation 2799 ft, top salt 1135 ft, top pay 2644 ft, co after shot 30 quarts 2645-51 ft, td 2665 ft; Powell 2, rig. Crockett Drilling Synd.'s Shannon 2, dr 2080 ft; Shannon 3, lcn. Cumberland O. & G. Co.'s Couch 1, spd and sd. Gulf Prod. Co.'s L. P. Powell 1, rig. Humphreys Corp.'s University 1, sd 3003 ft. Humble O. & R. Co.'s J. P. Sorg 1, elevation 2757 ft, top sal 1130 ft, top lime 2594 ft, sd with 1450 ft oil in hole 2651-60 ft. Magnolia Pet. Co.'s Shannon 1, elevation 2640 ft, top salt 993 ft, dr 2050 ft. Marland Oil Co.'s J. S. Todd 1, rig. Marland & Republic Prod. Co.'s J. S. Todd 1, elevation 2515 ft, top salt 820 ft, dr 2950 ft. Wm. Schaffer et al's University 1, sd 1365 ft. The Texas Co.'s (was J. C. Cooke et al) J. S. Todd 1, elevation 2672 ft, top salt 1039 ft, sd making gas and some oil, td 1705 ft.

**CULBERSON COUNTY** — Deep Rock Oil Co.'s T. P. Fee 1, lcn. Grisham et al's Grisham 1, dr 3515 ft. Pure Oil Co.'s Mrs. G. H. Quaid 1, co junk 1900 ft.

**JEFF DAVIS COUNTY**—Herbert Oil Co.'s T. M. Wingo 1, Sec. 20, Blk. G-25, dr 2095 ft. Humble O. & R. Co.'s W. W. McCutcheon 1, rig.

**ECTOR COUNTY**—J. C. Cooke et al's Henderson 1, lcn.

**GARZA COUNTY**—Deep Rock Oil Co.'s S. M. Swenson 1, rig burned, td 1620 ft. Emerald Oil Co.'s Connell 1, sd indefinitely 3200 ft. Mid-West Exploration Co.'s N. N. Rogers 1, rig.

**GLASSCOCK COUNTY**—Case & Hoover's W. H. Sparkman 1, fsh 2020 ft. Mascho & Marland Oil Co.'s Nellie Calder 1, ur 12½ inch cas 725 ft. Choate-Henshaw & Marland's Neal 1, sd 2534 ft.

**TOM GREEN COUNTY**—M. B. Bryant & Marland's Llano Fee 1, fsh 435 ft. Church-Fields et al's Williams 1, dr 2820 ft. Penn-Windsor et al's Harley Turner 1, sd 1910 ft. Roxana Pet. Corp.'s L. T. Clark 1, dr 1830 ft.

**HOWARD COUNTY**—Deep Rock Oil Co.'s Scott-Hyman 1, dr 3445 ft. Hyer et al's Clay 1, sd 1565 ft. Choate-Henshaw & Marland's O'Daniel 1, co 3103 ft. Owen-Sloan Oil Corp.'s Otis Chalk 1, ur cas 860 ft. Transcontinental Oil Co.'s Ora Roberts 1, fsh 630 ft.

**IRION COUNTY** — Oklavania Oil Co.'s Sawyer Cattle Co. 1, set 8¼-inch cas 1630 ft. Orient Oil Co.'s J. D. Sugg 2, spd and sd. P. H. Williams et al's Ashe Bros. 1, spd and sd.

**KENT COUNTY**—The Texas Co.'s Barren 1, dr 2460 ft.

**KING COUNTY**—The California Co.'s R. B. Masterson 1, dr hfw 3400 ft. Mascho-Winters et al's Frank Patten 1, lcn.

**LOVING COUNTY**—Lockhart & Co.'s W. D. Johnson 1, sd for cas 3375 ft.

**LYNN COUNTY**—Hart Oil Corp.'s C. O. Edwards 1, fsh 200 ft.

**MITCHELL COUNTY**—Atlantic Oil Prod. Co.'s Adams 3, testing oil pay 3030 ft; Adams 4, set cas 2765 ft. The California Co.'s C. M. Adams 2-B, rig; Paul Elder 5, dr 2705 ft; Morrison 15, swabbing 3040 ft; H. C. Miller 5-A, testing cas 2707 ft; Womack 3, testing cas 2850 ft; Womack 4, rig. Eastland Oil Co. and Gulf's J. J. Handley 1, dr 1465 ft; Adams 1, re-cementing cas 2805 ft. Mid-Kansas O. & G. Co.'s Ellwood 1, dr 2180 ft. Marland Oil Co.'s Shumaker 1, dr 2350 ft. Morrison-Thompson's Scott 1, sd 1440 ft. Magnolia Pet. Co.'s A. P. Watson 1, spudding; L. Coleman 1, sr for deep test 3205 ft; F. Adams 1, cem 6⅝-inch cas 2635 ft; C. M. Adams 3, dr 1320 ft; T. P. Ry Fee 1, dr 1480 ft.

**PECOS COUNTY**—Adams Oil Co.'s A. A. Gray 1, co 1135 ft. Dixie Oil Co.'s Mrs. Hersheusen 1, dr salt 2860 ft. Transcontinental Oil Co.'s Perry 1, sd 2100 ft.

**PRESIDIO COUNTY**—Hadlock-Miller et al's (was Byler) Tootle 1, Sec. 123, D&P Ry survey, Blk. 3, testing show high gravity oil with water 2015 ft.

**REAGAN COUNTY** — Big Lake Oil Co.'s University 20-A, co 2455 ft; University 25-A, co 2480 ft; University 37-A, co with oil in hole 2428; University 51, fsh 2485 ft; University 56, dr 2300 ft; University 57, fsh 2655 ft; University 58, dr 2810 ft; University 59, dr 2865 ft; University 60, dr 2550 ft; University 61, dr 2580 ft; University 62, cas trouble 2605 ft; University 63, dr 300 ft; University 64, rig; University 65, dr 490 ft; University 66, dr 500 ft; University 67, spudding. H. D. Camp et al's University 1, sd 670 ft. Marland Oil Co.'s J. T. Cole 1, rig. Mascho & Marland's Sawyer Cattle Co. 1, lcn. Marland & F. P. Zoch's J. A. Talley 1, spudding National machine. Simon et al's R. A. Walters 1, rig. Peer Oil Corp.'s Sawyer Cattle Co. 1, dr 2530 ft. L. V. Tannehill et al's University 1, set 8¼-inch cas 2085 ft. The Texas Co.'s J. D. Sugg 1, rig. Texon Oil & Land Co.'s University 1-B, dr 865 ft; University 38, 39, 40, 41, rigs; University 42, lcn; University 43, dk; University 44 and 45, lcns.

**REEVES COUNTY**—Owen-Sloan Oil Corp. & Deep Rock Oil Co.'s M. W. Tatum 1, elevation 3736 ft, dr 3505 ft. Humble O. & R. Co.'s T. P. Fee 1, dr 200 ft. World Oil Co.'s T. P. Fee 1, Sec. 39, T. P. Ry. survey, Blk. 57, Tsp 2, top black lime 2850 ft, showing gas sandy-shale 2925-30 ft. Schooler-Slack et al's T. P. Fee 1, dr 400 ft.

**SCURRY COUNTY**—E. E. Fogelson's Bryce 1, dr 1530 ft. Lockhart & Co.'s S. H. Newman 1, dr 1570 ft. Northwest Co.'s H. P. Welborn 1-A, spudding.

**STONEWALL COUNTY** — Arkansas Fuel Oil Co.'s Craft 1, dr 3312 ft. Elder Nance et al's Ward 1, sd 2130 ft; Thomas 1, sd 1520 ft. Swenson Oil Corp.'s Ward 1, dr hfw 3180 ft.

**STERLING COUNTY** — Co-Operative Dev. Co.'s E. W. Douthitt 1-A, sd 1655 ft. Chicago-Texas O. & G. Co.'s Durham 1, dr 2965 ft. Chas. Harty et al's Reynolds-Harty 1, dr 2455 ft. Deep Rock Oil Co.'s L. T. Clark 1, sd 1290 ft. G. M. Richardson et al's J. S. Johnson 1, lcn. H. D. Rummell et al's Clark 2, dr 935 ft.

# FRICK-REID SUPPLY COMPANY

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DONOVAN — BOILERS —

FRICK-REID Light Plants—Belting

DREADNAUGHT ROTARY EQUIPMENT

J&L CASING-TUBING-LINE PIPE

JOSEPH REID OIL & GAS ENGINES-POWERS

JOHNS-MANVILLE PACKINGS

TRANSIT PUMPS

RATIGAN PUMPING SPECIALTIES

ROEBLING WIRE LINES

STANDARD SEAMLESS CASING-DRILL PIPE-TUBING

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Wrightsman et al's Collins 1, ur 8¼-inch cas 1840 ft.

**SUTTON COUNTY** — Chesapeak Oil Co.'s Clarkson-Allison 1, dr by tools 610 ft.

**TAYLOR COUNTY**—Sanger O. & R. Co.'s R. H. Anderson 1, Sec. 8, L. A. L. survey, showing oil and gas 1870 ft.

**UPTON COUNTY**—Big Mesa Oil Co.'s University 1, sd 3095 ft. Choate-Henshaw & Marland's Noelke 1, dr 270 ft. Dixie Oil Co.'s Burleson 1, elevation 2629 ft, top lime 2085 ft, co bridge after shot 60 quarts 2185-2220 ft; Burleson 2, rig. W. W. Donnelly & E. L. Hults' H. M. Halff 1, elevation 2808 ft, dr 930 ft. J. A. Germany et al's H. M. Halff 1, elevation 2652 ft, top salt 1414 ft, dr 2415 ft. Independent O. & G. Co.'s Burleson 1, elevation 2616 ft, top salt 575 ft, top lime 2085 ft, fsh parted cas with 1500 ft oil in hole after shot td 2231 ft. Kirby Pet. Co.'s Union Fee 1, elevation 2529 ft, top salt 500 ft, top lime 2022 ft, trace gas 3240 ft. Marland Oil Co.'s Sanger 1, top salt 575 ft, dr 1720 ft. Plateau Oil Co. et al's Union Fee 1, pulling tubing to deepen, td 2234 ft. Republic & Marland's Baker 1, pumping 45 bbls oil, td 2232 ft. The Texas Co.'s Union Fee 1, top salt 710 ft, dr 1550 ft. F. P. Zoch et al's Union Fee 1, elevation 2709 ft, top salt 800 ft, top lime 2270 ft, testing cas 2530 ft; E. P. Ruhman 1, ur 12½-inch cas 950 ft. Tidal Oil Co.'s Union Fee 1, dk.

**WARD COUNTY**—Gulf Prod. Co.'s Hutchings et al 1, dr hard brown lime trace sulphur 3800 ft. Chesapeak Oil Co.'s Edgar J. Marston 1, crooked hole 710 ft.

**WINKLER COUNTY**—R. A. Westbrook & Co.'s T. G. Hendrick 1, spudding.

## Texas Panhandle Wildcats

### COMPLETIONS

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| **Hutchinson County—** | | |
| American Ref. Co. Weatherly 1.... | * | 3325 |
| Gates Oil Co. Kingsland 1 ..... | † | 2190 |
| McIlroy & Herring et al Smith 1.. | 1000 | 2857 |

### DRILLING REPORT

**CARSON COUNTY**—Amarillo Oil Co.'s L. Bivins 3-B, making 60 million ft gas, pulling pipe 3000 ft. Amatex Dev. Co.'s E. S. Polling 1, rotary rig. American Ref. Co.'s Burnett 6, std 2092 ft. B. S. Barnes et al's Burnett 1, sd 1150 ft. J. S. Cosden et al's Burnett 1, making 15 million ft gas, dr 2540 ft. Culbertson Bros. & Co.'s Burnett 1, dr 2595 ft. Gates Oil Co.'s Burnett 2, sd 2985 ft. Gulf Prod. Co.'s Burnett 10, dr 2275 ft; Burnett 11, rig. McFarland & Thomas' G. W. Witter 1, dk. Magnolia Pet. Co.'s Burnett 1-A, sd 1500 ft. Marland Oil Co.'s Burnett 1-A, dr 2370 ft; Burnett 1-B, dr 785 ft; Burnett 5, dk. The Texas Co.'s M. C. Burnett 4, making 10 million ft gas 2750-70 ft. Young & Patrick's J. C. McConnell 1, rig.

**COLLINGSWORTH COUNTY**—Continental Oil Co.'s Hughes 1, sd to test show heavy oil 3200 ft.

**COTTLE COUNTY**—National Potash Co.'s Dulaney 2, (core test) dr 1570 ft.

**DALLAM COUNTY**—James et al's (was H. A. Martin et al) James 1, ur 2500 ft.

**GRAY COUNTY**—Anderson-Brock et al's Beavers 1, sd 3800 ft. Clark-Baldridge's Morten 1, rig. Empire Gas & Fuel Co.'s H. Heithott 1, sd for storage with oil in hole 3164-69 ft, td 3176 ft. H. F. Wilcox et al's Coombs-Worley 2, dr rotary 1500 ft; Worley-Reynolds 2, show oil 2791 ft, dr 2795 ft. The Texas Co.'s G. H. Saunders 2, dr 605 ft; W. J. Brown 1, spd and sd.

**HALL COUNTY**—Hudspeth-Taylor et al's T. R. Fuston 1, sd 1645 ft.

**HUTCHINSON COUNTY** — American Ref. Co.'s G. A. Whittenburg 1, set 8¼-inch cas 2029 ft. Badger Oil Co.'s Tom Lewis 1, dr 460 ft. Bear Creek Oil Co.'s E. E. Watkins 1, rig. Canadian River Oil Co.'s (was Whittington) Kingsland 2, 3 and 4, dks. Canyon Oil Co.'s Whittenburg 1, dr by tools 2335 ft; Whittenburg 2, ur cas 2800 ft. Centerfield Oil Co.'s Smith 1, sd 2915 ft. Walter Cline & Douglas Oil Co.'s J. A. Whittenburg 1, dk. Cockrell-McIlroy Oil Co.'s Smith 1, rig; Smith 2, dk. Jack Crosbie et al's J. A. Whittenburg 1, dr 2545 ft. Currie Bros. & J. R. Phillips' Smith 1, fsh 2740 ft. Dixon Creek Oil Co.'s Smith 3, spudding; Smith 4, rig; Smith 5, lcn. Dunnigan et al's Whittenburg 1, dr 2360 ft. Fly-Blackburn Oil Co.'s Weatherly 1, rig. Gates Oil Co.'s Kinglsand 1-A, lcn; Kingsland 2, rig. Golding-Phillips et al's J. T. Hodges 1, spudding. Gulf Prod. Co.'s E. Cockrell 1, dr 2844 Ft; J. A. Whittenburg 2, rig. W. S. Heywood et al's E. Cockrell 1, spudding. W. H. Holmes et al's Smith 1, dr 1995 ft; Smith 2 and 3, dks. Hutchinson County Oil Co.'s Smith 1, sd for storage with show oil 2995-3010 ft. W. L. Kingsland's Fee 1, lcn. J. H. Lenix et al's Johnson 1, dk. McIlroy Oil Co.'s Smith 3, rig. McMillen et al's Whittenburg 1, dr 2300 ft. J. H. Middleton et al's Weatherly 2, plug back from 3248 for shot at 3045-60 ft; Smith 1 and 2, rigs. A. D. Morton et al's Johnson 1, rig. Native Oil Co.'s Johnson 1, sd 2970 ft. Newby Oil Co.'s E. Cockrell 1, dr 1600 ft. New Domain O. & G. Co.'s Kingsland 1, dk. Pattison Oil Co.'s (was Lenix-Stover) Smith 1, fsh 2690 ft. J. R. Phillips et al's Weatherly 1, dr 2800 ft; Kinglsand 3, lcn. J. R. Phillips & Heywood's Smith 1, rig. Phillips Pet. Co. & Pulaski's J. A. Whittenburg 1, cem 8¼-inch cas 2200 ft; Whittenburg 2, dr 2040 ft; Smith 1-A, rig; Smith 2, sd storage with oil in hole 2930-40 ft; Smith 3, dr 1620 ft; Smith 4, spudding; Johnson 1, dr 600 ft; E. Cockrell 1, dr 1550 ft. Phillips Pet. Co.'s Johnson 1, dr 2825 ft. Phillips Pet. Co. & Gibson Oil Corp.'s G. A. Whittenburg 2, dr 1840 ft; J. A. Whittenburg 1, testing with 650 ft oil in hole 2903-17 ft; Kingsland 1, rig. Phillips & Drysdale Oil Corp.'s Weatherly 1, dr 2945 ft. Phillips & South Hutchinson Oil Co.'s Whittenburg 2, sd 2880 ft; Whittenburg 3, dr 2300 ft. Prairie O. & G. Co.'s Weatherly 2, dr 2300 ft. Prairie and T. P. Coal & Oil Co.'s Johnson 1, spraying 20 bbls oil 2945-69 ft. W. R. Ramsey et al's Johnson 1, re-cem cas 960 ft. Relief Oil Co.'s Smith 1, spudding. Roxana Pet. Corp.'s Smith 2 and 3, rigs; Smith 1-B and 2-B, rigs. Skelly Oil Co.'s Johnson 1, lcn; Johnson 1-A, lcn; J. A. Whittenburg 1, ur 8¼-inch cas 1980 ft; Whittenburg 2, sd 750 ft; Whittenburg 3, dr 500 ft; Whittenburg 4, spudding. J. L. Smith & Bynum's J. A. Whittenburg 1, dr 515 ft. Smith & Willbank's Wm. Lyal 1, rig. Spring Creek Oil Co.'s Smith 1, rig. Summit Oil Corp.'s J. A. Whittenburg 1, fighting cave 2930 ft. The Texas Co.'s Burnett 7, rig; E. Cooper 1, sd 805 ft. Travelers Oil Co.'s Kinglsand 1, flowing 100 bbls, co cave 2879-95 ft; Kingsland 2, lcn. Triangle Oil Co.'s Smith 1, spd and sd. Texo-Oil Co.'s Johnson 1, set 8¼-inch cas 2740 ft. Twin-Six Oil Co.'s Kingsland 2, fsh 2435 ft; Kingsland 3, spd and sd; Kingsland 4, fsh tools 2760 ft. J. D. Ward et al's E. Cockrell 1, cas trouble 800 ft. Western Enterprise O. & G. Co.'s Smith 2, sd 2855 ft. Westex Oil Co.'s Whittenburg 1, dr 2830 ft; Whittenburg 2, set 6¼-inch cas 2820 ft. White Eagle O. & R. Co. et al's Smith 1, dr 1500 ft; Smith 2, rig; Smith 3, dk; Smith 4, lcn; J. A. Whittenburg 1, lcn; Johnson 1, spudding. Winner Oil Co.'s J. E. Pritchard 1, dk. Gibson Oil Corp's Johnson 1, Sec. 74, rig. McMan O. & G. Co.'s Johnson 1, Sec. 66, lcn. Ryan Consolidated Pet. Co.'s Johnson 1, Mary Whitley survey, rig. Lucky Ten Oil Co.'s Smith 1, rig.

**MOORE COUNTY**—Amarillo Oil Co.'s R. B. Masterson 2-A, making 30 million ft gas, sr 2485 ft. M. Cadman-Martin et al's Sneed 1, lcn. Clark-Baldridge et al's Sneed 1, dk. Brookins-Flowers & Marland Oil Co.'s J. T. Sneed 1, lcn. Landreth Prod. Corp.'s Sneed 1, dk.

**POTTER COUNTY**—Amarillo Oil Co.'s L. Bivins 4-A, sd in granite 2830 ft. Prarie O. & G. Co.'s Bivins 1, dr 2825 ft.

**ROBERTS COUNTY** — Phil Engle et al's Lederick 1, sd 4020 ft. W. M. Shriner et al's T. S. Jones 1, lcn at C NE¼ Sec. 106, C. C. & M. M. survey.

**SWISHER COUNTY**—Overson & Keagans' L. M. Woodward 1, sd 555 ft.

**WHEELER COUNTY**—McFarland-Thomas' Kachelhoffer 1, sd 2365 ft. Mid-West Exploration Co.'s W. C. Compary 1, sd 2985 ft; G. W. Porter 1, rig. Hal Vaughan et al's R. O'Gorman 1, dk.

## San Antonio Wildcats

**BASTROP COUNTY**—Johnson Bros. No. 1 Trigg, dr.

**CALDWELL COUNTY**—Van Keuren Oil Co.'s Ridout 1, dr. United North & South Oil Co.'s Kelly 1, dr; Tiller, dr. E. L. Smith Oil Co.'s Burdette 1, dr. Foster-Reiter's Brown 1, dr. C. E. Ash et al's Jolley 1, dr in rock.

**DUVAL COUNTY**—Associated Oil Co.'s Sutherland 1, dr. Humble Oil Co.'s Hagist 1, dr; Walsh 5, dr below 2700 ft. Killam-Seacord's Benavides 1, dr. Grayburg Oil Co.'s Halff 1, dr. J. K. Hughes Development Co.'s Peters 1, dr. Seagraves & Moody's Mesquite 1, dr; Walsh 1, dr; Benavides 1, blk. 6, survey 10, dr.

**DEWITT COUNTY** — Yoro Development Co.'s Holzaphel 1, abn.

**GUADALUPE COUNTY**—Dunning & Armstrong's Dale 1, dr. Howell et al's Louis Willman, dr. Smith-Payne Bond's Duran 1, dr. Humble Oil & Ref. Co.'s Wohlfahrt 1, dr 250 ft.

**JIM HOGG COUNTY**— Rydal-Rycade Oil Co.'s Allen 1, dr; Theodore Vella 2, dr; E. J. Brasswell 1, set cas. Beaucamp et al's Vela 1, dr. Magnolia Pet. Co.'s M. S. Bank 3, dr. Simms Oil Co.'s Palacious 1, set cas; Thompson 1, spudded in. Andrews Pet. Co.'s M. S. Bank 1, dr. Bailey et al's Palacious 1, dr. O. W. Killam's Martinez 34, dr; Holbein 1, bailing below 2089 ft.

**MEDINA COUNTY**—Medina Oil Co.'s Taylor 2, dr 200 ft; 3, lcn; Oden 1, lcn; Oden 2, lcn. Golden West Oil Co.'s Schmidt 4, prod. 150 bbls at 900 ft; Schmidt 5, dr; Oden 1, dr 250 ft. Buchanan & Tyrell's Nixon 1, dry hole. Walsh et al's Saathoff 1, lcn. Grayburg Oil Co.'s Ward 1, rigging up. Witherspoon Oil Co.'s Nixon 1, dr below 400 ft. Patterson-Patterson's Longfield 1, preparing to spud in. Rand et al's No. 1, dr 500 ft, oil showing. Ina Oil Co.'s Fohn 1, lcn. Plateau Oil Co.'s Johnson 1, lcn. Estham & Tarver's Viola Wilson 2, set cas at 910 ft. Jacobs et al's Oden 1, dk. Kettel et al's R. Richter 1, preparing to spud in.

**STARR COUNTY**—Rutledge et al's Kelsey 2, dr. A. T. Woods' Porcion 1, set cas at 1040 ft, showing at 1066 ft.

**WILSON COUNTY**—W. L. Brashers' Standish 1, dr.

**ZAPATA COUNTY**—Texas Co.'s Jennings 2, dr.

## Coastal Wildcats

### COMPLETION

| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| **Wharton County—** | | |
| The Texas Co. Taylor 4..... | 4700 | 3262 |

### DRILLING REPORT

**BRAZORIA COUNTY**—Roxana Pet. Co.'s R. R. Kropp 1, 150 ft to N and 1150 ft to E line on R. R. Kropp 100 acres in J. M. C. Neel sur, standing 300 ft in 24 gravity oil, td 550 ft, will dr deeper; Clemens 1-S, 78 degrees E and 12,903 ft from NW cor John McNeal League, dr 3779 ft, rock; Allen 2, 1741 ft E of No. 1, Sterling McNeel tract, r at bottom 2770 ft. Rycade Oil Corp.'s Nash 6, 500 ft and 45 degrees SW of Nash 5, lot 2 of W. R. Nash 200 acres, 500 ft S of N line, dr 187 ft, clay; Nash 7, 1600 ft E of W line and 200 ft S of N line of W. R. Nash 200 acres, rigging up.

**CHAMBERS COUNTY**—W. C. Moore et al's Blanke 2, on Blanke tract, H&TC, Sec. 39, 1500 ft W of Blanke 1, sd 100 ft.

**COLORADO COUNTY**—R. C. Timms et al's Drumgould 1, H. A. Cutler tract, near Eagle Lake, no report.

**FORT BEND COUNTY**—Rycade Oil Corp.'s Wisdom 4, 200 ft S of No. 2, off Nash dome, dr 2498 ft, hard sand; Flessner 2, 325 ft N of Nash 5 and 150 ft N and 1300 ft E of SW cor of D. Flessner 200 acres on edge of Nash dome, dr 1890 ft, gumbo; J. Meier 4, on Julius Meier 207.7 acres, off Nash dome, dr 2408 ft, shale. Gulf Prod. Co.'s Moore 6, 84 varas to S and 2598 varas to E line, No. 80 German Emig., rigging up. P. A. Neilan's Frederick 2, 300 ft N and E from these lines on survey 19, S. George Lease, temporarily sd. Gulf Prod. Co.'s Davis 8, 100 ft to N and W lines on G. Watson tract, r 3275 ft.

**HARDIN COUNTY**—Vacuum Oil Co.'s Teel 3, off Saratoga dome, dr 700 ft sand and boulders. Rio Bravo Oil Co.'s Fountain 5, 850 ft N and 900 ft E of SW cor of J. O. Fountain 100 acres off Saratoga dome, dr 2500 ft. Texas Little Farms Oil Co.'s Hawley 1, Joel E. Hawley League, no report.

**GOLIAD COUNTY**—Houston Oil Co.'s Petrus 1, 10 miles W of Goliad, dr 2423 ft, shale;

# Tribal Osage Oil Leases At Public Auction

## March 17 and 18, 1926 By U. S. Government

March 17 and 18, 1926, at Pawhuska, Oklahoma, about 115,000 acres will be offered for oil leases in quarter section tracts. Bids will be for bonus in addition to royalties, 25% payable on day of sale, balance in three annual instalments, with acceptable security. Within advertised area there are about 9479 oil wells producing from one barrel to 1200 barrels each, the total daily production for December, 1925, being about 70,000 barrels; also, there are about 80 wells drilling. All lands are now leased separately for gas. Blue print maps of area advertised, showing tracts producing oil or gas, can be had for fifty cents each, also logs of producing oil or gas wells for twenty-five cents each well. Write U. S. Superintendent, Osage Agency, Pawhuska, Oklahoma, for maps, logs or other information.

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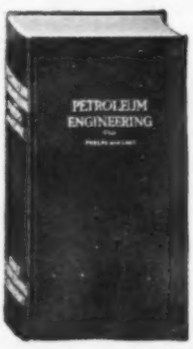


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Parks 1, 8 miles E of Goliad, dr 1056 ft, gumbo.

**HARRIS COUNTY**—The Texas Co.'s Warren 6, 1300 ft W and 800 ft S of E line, E. Ehrenberg sur, near Hockley, dr 2835 ft; Warren 7, 700 ft NW of No. 6, dr 1140 ft. Drain Oil Co.'s Harrell 1, 1¼ miles SW of Sid Westheimer 1, near Cross Timbers, dr 1450 ft. Rio Bravo Oil Co.'s Settegast 2, 650 ft W and 500 ft S of NE cor Settegast 100 acres, r 4400 ft; Pierce Fee 2, 300 ft N and 75 ft E of No. 1, dk.

**JEFFERSON COUNTY**—Houston Oil Co.'s Sun Davis 4, T&NO sur, 400 ft N of No. 3, near Big Hill, dr 3540 ft sand and boulders; Sun Dyson 1, near Big Hill. Gulf Prod. Co.'s Burrell 1, 1000 ft E of Thomas 5, near Fannette, dr 2325 ft, gumbo. Yount-Lee Oil Co.'s Gladys 2, 75 ft S and 100 ft E of NW cor of Block 12, J. A. Veatch sur, no report.

**MATAGORDA COUNTY**—Sheppard Mound Oil Co.'s Hawkins 2, on Hawkins ranch, Sheppard Mound, changing dr stem, 2980 ft.

**REFUGIO COUNTY**— Houston Oil Co.'s O'Connor 1, Tom O'Connor ranch, Hearn sur, near Mission Bay, dr 2822 ft, gumbo.

**VICTORIA COUNTY** — Houston Oil Co.'s O'Connor 1, Mrs. M. V. O'Connor ranch, dr 2678 ft, sand.

**WASHINGTON COUNTY**—S. H. Spangler et al's Regine 1, 6 miles NW of Burton, Sandtown district on Regeine farm, resumed dr 1200 ft.

**WHARTON COUNTY**—Jas. W. Rich- Humphrey Oil Corp.'s Dennis 2, 5 miles NW of Wharton in Blk. 9, R. Kuykendall League, 30 ft S of No. 1, rigging up; Brown 1, 50 ft each way from SW cor of W. Brown 20 acres, on GH&SA of James Murray sur, near Mackey, dr 554 ft, rock. Vacuum Oil Co.'s Hooper 1, 50 ft from each line of L. M. Hooper 100 acre tract, dr 529 ft, sand and gumbo. Atlantic Oil Prod. Co.'s Taylor 3, 50 ft from both lines of SW cor of 20 acre lease, r 2970 ft, oil showing; Taylor 4, 200 ft W of No. 2, no report. Humble Oil & Ref. Co.'s Hawes 1, 50 ft from both lines of NE cor of E. Hawes 74 acre tract, dr 2206 ft, gumbo and lime. The Texas Co.'s Taylor 4, 200 ft NW of No. 3 on S. T. Taylor 400 acres, completed for 4700 bbls 30 gravity oil, 3262 ft; Taylor 5, 200 ft SW of No. 4 and offset to Sinclair No. 1, dr 2375 ft; Taylor 6, 100 ft NE No. 4 and 100 ft SE of Atlantic's No. 1, dr 3000 ft gray sand, no show; Taylor 7, 200 ft SW of No. 5, dr 1575 ft gumbo; Floyd 1, NW of Taylor 3 on M. S. Floyd 56 acres, rigging up. Sinclair Oil & Gas Co.'s Taylor 1, 50 ft out of SE cor of 5-acre tract and offset to Atlantic's No. 1, dr 3074 ft oil sand; Taylor 2, 200 ft S of Sinclair's No. 1, dr 1667 ft gumbo; Taylor 3, 200 ft S of Sun Co.'s No. 1, rigging up; Taylor 4, 200 ft S of Sinclair's No. 1, dr 658 ft, hard sand. Sun Co.'s Taylor 1, 50 ft from each line out of SE cor of 5-acre tract, washing 3044 ft oil sand; Taylor 3, 200 ft S No. 1, lcn; No. 4, 200 ft S No. 3, lcn; No. 5, offset to Vacuum's Hooper 1, lcn; No. 2, 50 ft out of NE cor of NW 5-acre tract and offset to Atlantic's No. 3, dr 2917 ft gas sand. Murchison & Fain No. 2, on Marland 50 acres, dr 560 ft, hard sand. Oxford Oil Co.'s Autrey-Floyd No. 1, NW of Humble-Gulf 124 acres, 50 ft S and W of NE cor of Floyd 11 acres, S. F. Austin League, dr 2801 ft, gas sand; Rogers 1, 18 varas N and 59 varas W of SE cor of Rogers 80-acre tract, S. F. Austin League, will abn 1778 ft. Nelms et al's Bay 1, 5900 varas NE along NW line and 1000 varas at right angles with said line, preparing to sidetrack 805 ft; Morris 1, 2100 varas NE along NW line of W cor and 2100 varas at right angles with said line, sd. Gulf Prod. Co.'s Borden 1, on A. P. Borden 600 acre tract in SE cor, near Mackey, dr 2680 ft, gumbo; Chase 1, 500 ft to S and 50 ft to W line of E. M. Chase 60-acre tract off Boling dome, Stephen F. Austin League, cored oil sand sand 2586 ft. Houston Gulf Gas Co.'s Woodfin 1, 5400 varas NE along NW line and 500 varas S at right angles of said line in John Huff sur, no report.

**CALCASIEU PARISH**—Vacuum Oil Co.'s Farquhar 3, 175 ft W and 100 ft N of SE cor of SW¼ Sec. 9, dr 103 ft sand and gravel; Freiberg & Wolfe 1, 780 ft S and 685 ft E of NE cor of SW¼ of Sec. 9, changing rig 4669 ft; Freiberg & Wolfe 2, 200 ft each way out of NE cor, dr 2817 ft, gumbo; Bordages 2, 500 ft W and 200 ft N of SE cor of N½ of NW¼ Sec. 9, dr 3527 ft, sandy lime; Miller 5, 300 ft N of SW cor of NW¼ Sec. 10, will deepen 4433 ft in oil; Miller 6, 475 ft N and 11 ft W of center of Sec. 9, cored oil 4230 ft; Miller 7, 500 ft W of No. 3, dr 1528 ft, hard lime; Miller 8, 400 ft N of No. 4, cement setting 2296 ft; Miller 9, 400 ft N and 100 ft E of No. 4, dr 1519 ft rock.

**ST. MARTIN'S PARISH** — Rycade Oil Corp.'s Atchafalya 1, 18-9s-7e, lcn.

## Kansas Wildcats

**BARBER COUNTY**—R. B. Brown's Martin 1, NWc 14-34-11, sd 1500 ft.

**BARTON COUNTY** — John Herron's Everleigh 1, SEc NE 22-18-3, sd 4550 ft. Huffins et al's Smith 1, C NE SE NE 17-19-11, sd 3900 ft.

**BUTLER COUNTY** — Eyessen's Varner 1, NEc SW 29-25-4, lcn. Greenland & Kismet's Daley 1, SWc SE 25-24-6, lcn; Potts 1, NEc 29-24-7, lcn. W. M. Neeley O. & G. Co.'s Kiser 1, SW SE SW 12-26-7, dr 350 ft.

**CHASE COUNTY**—Derby Oil Co.'s Crosley 1, SEc NW 23-22-9e, lcn. Dingee, Pryor & Lockhart et al's Evans 1, NWc NE 1-22-9, sd 2100 ft; Evans 1, NEc NW 14-22-9, lcn.

**CHAUTAUQUA COUNTY**—Blackwell O. & G. Co.'s McCown 1, NWc SE 31-32-10, Peru sand 1577 ft, show 2290 ft.

**CLOUD COUNTY**—Concordie Oil & Prod. Co.'s Murdock 1, SEc 6-6-4, sd 3030 ft.

**COWLEY COUNTY** — Pettee & Banks' Withers 1, NEc NW 32-30-5, ur 10-inch 1600 ft. Phillips Pet. Co.'s Hunt 1, NEc 16-34-5, dr 2290 ft. Branson et al's White 1, SEc SW SW 7-30-6, spd and sd. S. H. E. Petroleum Co.'s Day 1, NE NW 24-34-6, oil 2125-36 ft, gas 2142-82 ft.

**ELK COUNTY**—I. T. I. O. Co.'s Cummings 1, C NW NW 31-30-10, sd 1530 ft. Roy Shaples et al's Howard 1, SW NE 14-30-9, dr 1325 ft.

**GRAHAM COUNTY** — Gruien & Shilers' Baker 1, NWc SE NW 17-10-24, rig.

**LYON COUNTY** — Connell et al's Ball 1, SEc SW NW 23-18-10, lcn. Culp et al's No. 1, SW SE 25-19-10, rig. Troxell et al's Williams 1, NE SW 12-20-10, rig. Sheedy et al's Morris 1, NWc SE 19-21-10, dr 800 ft. S. W. Pet. Co.'s Vorhees 1, SWc NW 34-21-10, dr 975 ft. Bush's Eskridge 1, NE SE 36-19-11, rig. Connell et al's Lewis 1, SWc 4-20-11, lcn. Gordon et al's Stillwell 1, SEc 24-20-11, lcn. Miss. Valley Oil Co.'s Neusman 1, C NW SE 25-20-11, lcn; Langley 1, C SW SE 4-21-11, rog. Abel et al's Rednoor 1, SWc 11-18-12, lcn. Abel & Finney's DeLong 1, NWc SW SW 22-18-12, machine. R. G. Gillespie's Flading 1, SWc NE 9-20-12, rog. Connell et al's Welch 1, NEc SW 22-20-12, machine. Swartz's Tiles 1, SEc SW 29-21-12, no report. Haviland et al's No. 1, SE NE NE 7-20-13, lcn. Gashe & Balliere's Stratton 1, SEc NW 32-20-13, lcn. Phillips Pet. Co.'s Shepard 1, SW NW 29-21-13, lcn.

**OSAGE COUNTY**—Baker et al's 1, C SE SE 3-15-15, sd 260 ft. Rogers & Bittle's Bertha 1, SEc NW SE 28-17-15, lcn. Mull-Vit Dev. Co.'s Neil 1, NWc NE SW NW 8-17-17, sd 2835 ft.

**RENO COUNTY**—Frank Hopper's Stevens 1, NWc 7-26-7, fsh 8-inch 2755 ft.

**RICE COUNTY**—Jasper & Beschka's Walker 1, SWc NE 10-18-6, dr 3460 ft. Stamey's Barnes 1, SEc NE 21-20-6, sd 2726, hfw.

**RILEY COUNTY**—Pawnee O. & G. Co.'s Marks 1, SWc NE NW 26-10-6, dr 2400 ft.

**ROOKS COUNTY**—Keys Pet. Co.'s Saidon 1, NWc SW SE 7-2-20, spd and sd. C. Findeiss et al's Minx 1, SWc 25-10-9, sd 3669 ft.

**SALINE COUNTY**—Thrall et al's Halquest 1, SEc NE NE 15-15-4, sd 1010 ft.

**SUMNER COUNTY**—Roxanana Pet. Corp.'s Miller 1, NE SW 17-32-2, swab 140 bbls 2950-60 ft. Wentz's Schwartz 1, NWc NE NE 27-34-2, cellar.

**WABAUNSEE COUNTY**—Williams et al's Henderson 1, NEc SW NE 15-13-12, sd 3600 ft. Ramsey Pet. Co.'s Kaul 1, SEc NE NE 2-11-11, dr 2005 ft.

**WOODSON COUNTY**—Alter et al's Hunt 1, NWc SW 13-25-14, sd 700 ft.

## Oklahoma Wildcats

**ATOKA COUNTY**—Wapanucka Dev. Co.'s Underwood 1, C W L SE SE 28-15-10, sd 1343 ft. Hansen et al's Dabney 1, C SE NE 17-4-11, dr 3800 ft.

**BECKHAM COUNTY**—W. R. Duke's McGee 1, NWc SW SE 25-8-22, no report.

**BLAINE COUNTY**—Okama Oil Co.'s Eklemeir 1, SWc 21-15-10, no report.

**CADDO COUNTY** — Continental Diamond's Funk 1, SE SE 1-5-9, report.

**CANADIAN COUNTY** — Thos. Revelle's Dawson 1, NEc SE NW 34-13-9, no report. O. D. Jones et al's Sanders 1, C NE NE NE 29-11-7, no report.

**COMANCHE COUNTY** — Daisy Bell Oil Co.'s Warehime 1, C SW SW 25-4-9, no report Mid-Kansas O. & G. Co.'s Hendricks 1, C S L SE 33-3-10, no report. Becker & Reed's Hind 1, NEc NW 30-4-10, no report. J. R. Abernathy's No. 1, NEc NW 24-5-11, no report. Mid-Kansas' Cox 1, NEc SE NE 30-1-13, no report.

**GARFIELD COUNTY** — Roxana's Reed 1, SWc NE 34-24-3, no report. Bryan & Emery's Chevelier 1, NWc SW 6-23-4, no report. Bu-Vi-Bar's Johnson 1, SWc 31-23-4, no report. Shaffer & Amerada's Brunken 1, NEc 32-24-4, no report. Sinclair's Fee 1, SWc SW NE 2-20-5, no report. Wilcox O. & G. Co.'s Zalondek 1, C SE SE SE 22-24-6, no report.

**GRADY COUNTY**—Becker-Reed Oil Co.'s Brown 1, C NW NE 29-6-7, no report.

**GRANT COUNTY**—Dedman, Flannagan & Hennage's Sherrer 1, NEc SW 16-26-3, sd 515 ft. Lambert & Mink's Tabor 1, C SE NE SE 23-26-3, spd and sd. Gypsy Oil Co.'s Meugge 1, SEc NW 33-26-3, dr 1720 ft. Marland Oil Co.'s Webb 1, C NW NE NE 2-27-3, co 4109 ft.

**HUGHES COUNTY** — Parmenter et al's Stewart 1, C SE SW SW 14-7-9, rig. Brock's Bruner 1, C SW SW NW 28-7-8, 120 bbls 4336-40 ft. Henry Greis & Kerrs' Pearson 1, C SE NE NE 30-5-10, cd 3500 ft, may deepen.

**JEFFERSON COUNTY**—Godley Oil Co.'s

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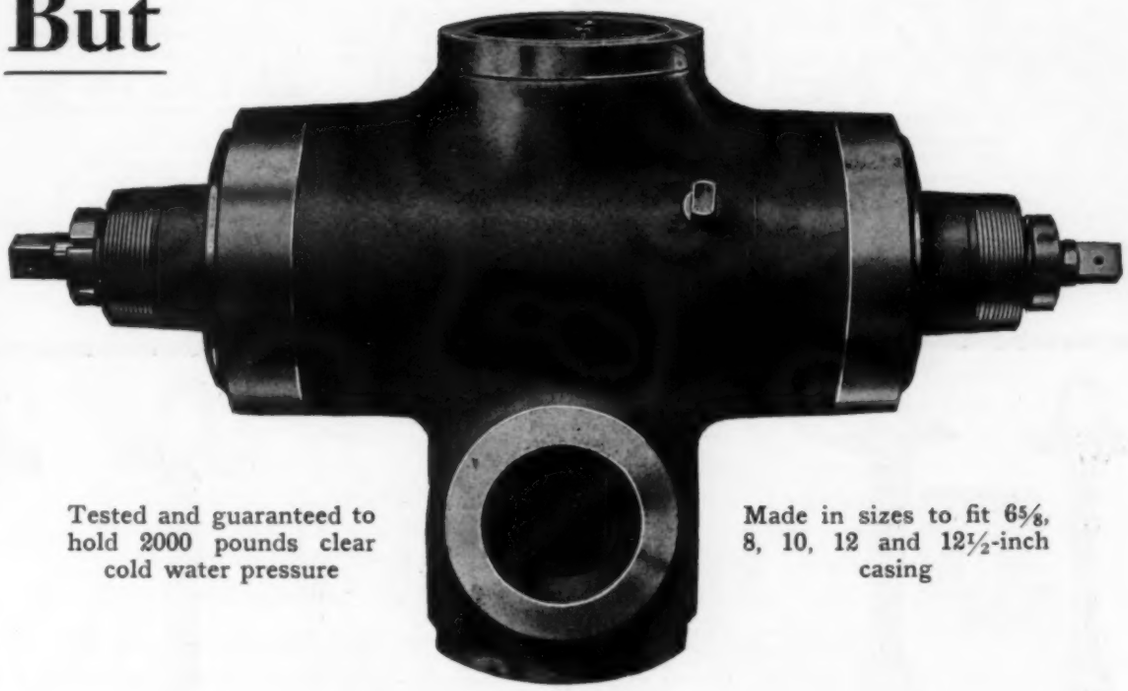

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# Cameron Iron Works

**Houston, Texas**

Woodworth 1, C NE NW 36-5-4, no report. Oasis's Major 1, C SE SW 34-5-6, no report.

**KAY COUNTY**—Tonkawa Dev. Co.'s McDaniels 1, C SE SE SE 15-25-1, sd 880 ft. Miss. Valley Oil Co.'s Butler 1, C NE NE NE 22-27-2, sd 3930 ft. Souligny Bros.' School land 1, NEc NW 16-26-3, reaming 8-inch 2593 ft. Davis Drilling Co.'s Street 1, C NE NE NE 31-28-3, td 3710 ft fsh.

**KINGFISHER COUNTY** — McKenna & Crawford's No. 1, NEc SW 27-16-6, no report. Bu-Vi-Bar's No. 1, SEc NW 11-19-9, no report.

**LINCOLN COUNTY**—Douglas Oil Corp.'s Ewing 1, NWc 7-13-3, sd 4320 ft for cas. Ruby et al's Cull 1, NEc NW 36-15-4, sd 4721 ft for cas. Carter Oil Co.'s Meeks 1, SWc 26-16-2, lcn. Flynn, Morgan & Young's Rittenhouse 1, NWc SE 26-12-5, dr 460 ft.

**LOGAN COUNTY**—Blackford O. & G. Co.'s Lair 1, C S L N½ SE 28-16-1, no report. Haley & Pioneers' Quair 1, SWc SE 33-18-3, no report. Franklin Oil Association's Moore 1, SWc SE 28-18-4, no report. Bryan & Emery's No. 1, NWc SE 33-19-4, no report.

**MAJOR COUNTY**—Frantz & Slick's Gray 1, C NW 36-21-11, no report. Texas Prod. Oil Co.'s Cheyenne Basin 1, SWc 6-22-14, no report.

**MARSHALL COUNTY** — Ramsey Bros.' Griffin 1, SW SW 10-5-5, dr 1400 ft. United "8", Marshall 1, SW SW 30-5-6, sd 585 ft.

**NOBLE COUNTY**—Miller's 101 Ranch, NEc 1-24-1, spd 185 ft.

**POTTAWATOMIE COUNTY** — Davis Detrick's McCathy 1, SEc NW 10-6-2, td 3860 ft. McCullough's Madgett 1, NWc 25-10-4, dr 780 ft. Central National Oil Co.'s Toney 1, C SW SW SW 28-10-4, sd 755 ft. Texas Co.'s Allenbaugh 1, SEc SW 3-11-5, sd, hfw 4725 ft.

**PAWNEE COUNTY**—Dixie's Roberson 1, NEc SW NW 8-21-6, spd. Bu-Vi-Bar's Canfield 1, NWc 31-22-7, rig.

**SEMINOLE COUNTY**—Bryan Bros.' Sam Walker 1, C SE SE SE 4-7-6, swab 40 bbls 2752-61 ft. Pure Oil Co.'s Jonah 1, C E L NW NW NE 15-9-7, fsh 1478 ft.

**STEPHEN COUNTY**—Homa Okla Oil Co.'s Waters 1, C SW NE 10-2-9, no report. Flowers & Frazier's Turner 1, NEc NE 25-2-9, no report.

**TILLMAN COUNTY** — Oasis Oil Co.'s Snelling 1, SEc SE SE 13-1-8, no report. Tipton et al's Riverbed 1, C NE NE 1-5-5, no report.

**TEXAS COUNTY**—Wilcox O. & G. Co.'s Horey 1, SEc 21-4-14, dr 150 ft; Zea 1, SWc SE 28-3-13-std 2223 ft. Reiter & Foster's No. 1, SEc SW 9-13-15, dr 200 ft. Garber & Pulse's No. 1, SEc 4-1-12, rig up. Valerius O. & G. Co.'s Hughes 1, NWc SW 18-3-12, dr 350 ft.

## Louisiana Wildcats

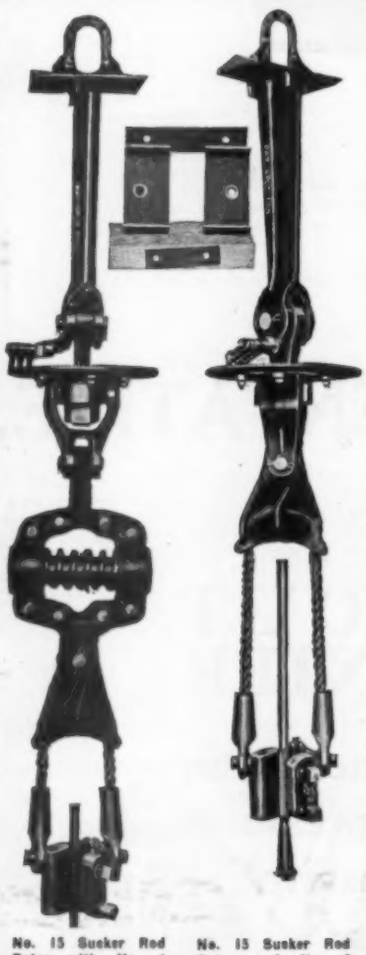
### COMPLETIONS

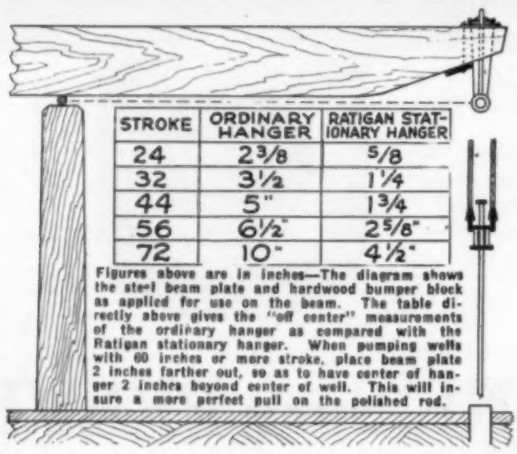
| Company, Well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| **Claiborne Parish—** | | |
| Triangle Drilling Co.'s Meadows 1, 7-22-5 | * | 2131 |
| **De Soto Parish—** | | |
| Gulf Ref. Co.'s Williams C-18, 31-13-11 | * | 6090 |

### DRILLING REPORT

**BOSSIER PARISH**—Arkansas Fuel Oil Co.'s Murray 1, 14-23-14, sd 1130 ft. Benton Synd's. Bulkley 1, 9-20-13, dr 1085 ft. Collins & Woodley's Kilburn 1, 18-19-13, sw 988 ft; coring deeper. Simms Oil Co.'s Sandidge 1, 9-18-11, re-setting 4½-in 1556 ft. Square Deal Oil Co.'s Hale 1, 17-18-11, sw 1227 ft.

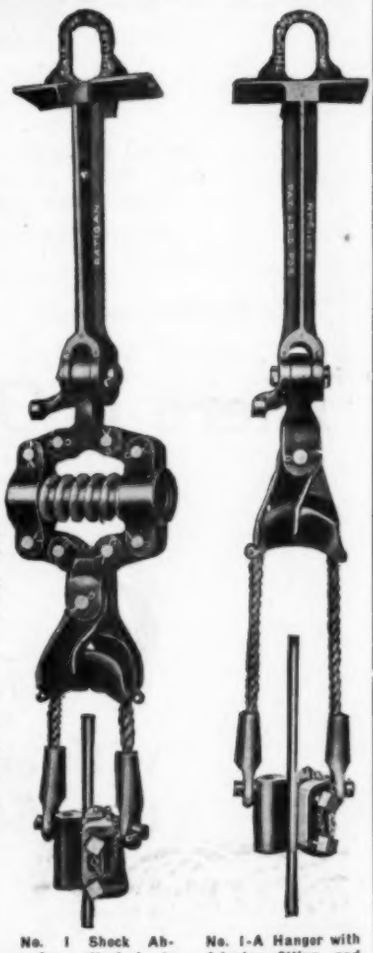
**CADDO PARISH**—Dixie Oil Co.'s Jolley 1, 27-22-15, dr 3810 ft; Noel B-2, 13-21-15, set 6-inch 3557 ft; Robertshaw 71, 14-21-15, set 15½-inch 263 ft. Fortuna Oil Co.'s Levee Board 2, 8-20-15, cas collapsed 2985 ft; Bradford 1, 24-21-15, dr 1200 ft. Gulf Ref. Co.'s Lane 17, 13-21-15, ru to deepen 2856 ft; Muslow 1, 35-21-15, r 390 ft; Tyson 1, 14-21-15, set 12½-



| STROKE | ORDINARY HANGER | RATIGAN STATIONARY HANGER |
|---|---|---|
| 24 | 2 3/8 | 5/8 |
| 32 | 3 1/2 | 1 1/4 |
| 44 | 5" | 1 3/4 |
| 56 | 6 1/2" | 2 5/8" |
| 72 | 10" | 4 1/2" |

Figures above are in inches—The diagram shows the steel beam plate and hardwood bumper block as applied for use on the beam. The table directly above gives the "off center" measurements of the ordinary hanger as compared with the Ratigan stationary hanger. When pumping wells with 60 inches or more stroke, place beam plate 2 inches farther out, so as to have center of hanger 2 inches beyond center of well. This will insure a more perfect pull on the polished rod.



The purpose of the steel beam plate is to insure a firm and level surface for the flat top hanger. The purpose of the bumper block is to force the hanger OUT on the up stroke, resulting in a more perfect pull at all times.

Ratigan Hangers are all interchangeable and may be used with any piece of Ratigan equipment without adjustment. All wearing joints are rocker joints, which means minimum wear and maximum life. There is nothing to oil.

No. 15 Sucker Rod Rotor with No. 1 Shock Absorber attached and No. 6 Polish Rod Grip.

No. 15 Sucker Rod Rotor and No. 6 Polish Rod Grip

# J.P.Ratigan

No. 1 Shock Absorber attached to No. 1-A Hanger, and No. 6 Polish Rod Grip

No. 1-A Hanger with Adapter fitting and No. 6 Polish Rod Grip

*Ratigan's "SUNEGRIP"*
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in 345 ft. Ohio Oil Co.'s Ardis 1, 1-21-15, coring 3915 ft; E. K. Smith 18, 12-21-15, r 3737 ft; E. K. Smith 19, 12-21-15, dk. D. C. Richardson's Youree-Randolph 3, 13-20-15, rig; Youree-Randolph 4, 13-20-15, dr 470 ft. The Texas Co.'s Caddo Mineral Lands 42, 23-21-15, set 12½-in 300 ft; Federal-Jeems Bayou B-1, 15-20-15, fsh 3737 ft; Levee Board 59, 35-21-15, dr 1810 ft.

**CALDWELL PARISH**—Alexander et al's Cruse 1, 6-11-4e, dk.

**CLAIBORNE PARISH**—Triangle Drilling Co.'s Cupp 1, 2-23-5, lcn; Keen 1, 7-19-5, coring 3445 ft.

**DE SOTO PARISH**—Dixie Oil Co.'s Jenkins 1, 9-12-11, set 8¼-in 3293 ft. Fortuna Oil Co.'s Band 1, 32-12-15, dr 2135 ft. Gulf Ref. Co.'s Williams C-18, 31-13-11, preparing to abandon, 6090 ft. J. C. Walton's Harp 1, 36-12-11, dr 600 ft.

**GRANT PARISH**—Dowling & McCurry's Holmes 1, 20-9-1e, set 4½-inch 1611 ft.

**LA SALLE PARISH**—P. J. White's Louisiana-Central 1, 27-10-23, plugged back to 1581 ft; shut down.

**LINCOLN PARISH**—Buckley & Palmer's Davis 1, 12-20-3w, sd 1500 ft. The Texas Co.'s Tremont 1, 27-18-1w, set 15½-inch 60 ft.

**MOREHOUSE PARISH**—Boisseau et al's Sullivan 1, 11-21-7e, to set 6-inch 2487 ft.

**NATCHITOCHES PARISH**—Amerada Pet. Corp.'s Wafer 1, 3-11-8, dr 3165 ft.

**OUACHITA PARISH**—Culver et al's Cordell 1, 23-15-1e, sd 1360 ft. Dickson & Frue's Goodwin 1, 24-18-2e, sd 3036 ft. Southern Carbon Co.'s Jones 1, 6-16-5e, sd 3090 ft.

**RAPIDES PARISH**—Hincy & Mack's Barrow 1, 29-5-2e, sd 1250 ft. Pacholik et al's Voda 1, 12-4-1e, lcn.

**SABINE PARISH**—Emlet et al's Bowman-Hicks 6, 8-7-12, sd 3710 ft.

**UNION PARISH**—Arkansas Fuel Oil Co.'s Reeves 1, 14-20-1e, sd 1730 ft. Empire Gas & Fuel Co.'s Dubach Lumber 1, 17-20-1e, dr 2275 ft.

**WEBSTER PARISH**—Doern et al's Bolinger 1, 9-22-11, rig. Fortuna Oil Co.'s Bible 1, 8-20-9, set 6-inch 4281 ft. Humble O. & R. Co.'s Cox 1, 22-21-10, fsh 4214 ft. Ohio Oil Co.'s Cox 1, 23-21-10, dr 4560 ft.

**WINN PARISH**—Cedar Creek Pet. Co.'s Sullivan 1, 6-10-2w, sw 700 ft. J. R. Hale's Eagle 1, 6-10-2w, dr 965 ft.

## Arkansas Wildcats

**ASHLEY COUNTY**—Pine Prairie Oil Co.'s Pine Prairie 2, 1-17-6, dk. Rhodes et al's Bledsoe 1, 20-15-7, dr 1985 ft.

**CALHOUN COUNTY**—Magnolia Pet. Co.'s Calion 1, 29-15-14, testing 3973 ft. Southern Crude Oil Purch. Co.'s Freeman-Smith 1, 19-14-15, fsh 2591 ft.

**CLARK COUNTY**—Wheelen Oil Co.'s Brown 1, 35-10-20, dr 1515 ft.

**CLEVELAND COUNTY**—Dedman et al's Moore 1, 28-9-10, sd 1757 ft.

**COLUMBIA COUNTY**—H. W. Aarnes's Brown 2, 13-15-20, dr 3030 ft. Phillips et al's Davis 1, 14-18-21, sd 2860 ft. Pluto Oil Co.'s Robinson 2, 23-18-23, set 8-inch 900 ft.

**DALLAS COUNTY**—McNeil et al's Owens 1, 29-10-16, dr 2100 ft.

**DREW COUNTY**—McClintock et al's Ogle 1, 35-13-5, set 6-inch 1799 ft.

**HEMPSTEAD COUNTY**—Burton et al's Garland 1, 23-10-25, sd 1510 ft. C. W. Robinson's Toner 1, 29-12-23, dr 2615 ft.

**LA FAYETTE COUNTY**—Arkansas Fuel Oil Co.'s Red River Lands 1, 18-19-24, building std rig; Red River Lands 2, 18-19-24, dr 625 ft. Humble O. & R. Co.'s Bodcau Fee 3, 19-16-23, lcn. Ken-Saw Pet. Co.'s Red River Valley 2, 3-20-24, fsh 2820 ft.

**LITTLE RIVER COUNTY**—Grote et al's Allen 1, 2-13-29, sw 2952 ft.

**MILLER COUNTY**—Buzzard Bluff Oil Co.'s Gillespie 1, 22-14-26, dr 2005 ft. Copeland et al's Wiseman 1, 36-15-27, sd 2650 ft. Humble O. & R. Co.'s Crank 1, 5-17-25, rig. Lenze et al's Dale 1, 25-15-26, skidding over.

**NEVADA COUNTY**—Humble O. & R. Co.'s Calloway 1, 10-15-22, dr 850 ft. Magnolia Pet. Co.'s Johnson 1, 3-15-21, fsh 4475 ft.

**OUACHITA COUNTY**—Buffalo Oil Co.'s Morgan 4, 22-15-19, set 6-inch 1436 ft. J. E. Crosbie's Wallace 1, 27-15-19, setting 6⅝-inch 2180 ft. Equity Oil & Dev. Co.'s Morgan 1, 27-15-19, dr 1655 ft. Gossett et al's Cosden 1, 21-15-19, testing 1458 ft, slight show of oil; Davis 1, 26-15-19, sd 1672 ft; Thompson 1, 22-15-19, coring 1455 ft. Harrell et al's Moline Timber 1, 32-11-17, rig. Louisiana Oil Ref. Corp.'s Green 1, 22-15-19, dr 1200 ft. Van Diver et al's Yarbrough 1, 22-14-17, sd 1600 ft. J. D. Reynolds et al's Davis 1, 22-15-19, set 10-inch 42 ft.

**UNION COUNTY**—Bondurant et al's Garner 1, 8-18-12, dr 1625 ft. Crawford & Sebastian's James 10, 6-16-15, dr 3035 ft. El Dorado Union Oil Co.'s Ennis 1, 23-17-16, rig. Howell & Knowles' Springer 1, 36-17-16, cratered, dead, 2527 ft. E. M. Jones' Andres 1, 16-17-16, rig. Marine Oil Co.'s Slaughter 1, 9-17-16, dr 825 ft. McGaha et al's Haney 1, 11-17-16, sd 2138 ft. Miles Trust's Miller 1, 35-17-16, sw 2560 ft. J. D. Reynolds' Dumas 2, 15-17-16, swabbing 2149 ft; Dumas 3, 15-17-16, dk. Rovenger Oil Corp.'s Dumas 3, 9-17-16, rig; Dumas 4, 9-17-16, dr 415 ft; Goodwin 2, 16-17-16, dk. Harrell 1, 15-17-16, dr 1700 ft. Simms Oil Co.'s Dumas A-2, 9-17-16, dk. Wingfield et al's Cruse 1, 27-17-16, dk.

# PERMITS GRANTED FOR NEW WELLS

## Weekly Comparison of New Wells

**Following is a condensed table giving a comparison of permits or locations made for new wells in Kansas, Oklahoma, Arkansas, Louisiana, Texas and California:**

**Number of Wells for Week Ending**

| | Nov. 13 | Nov. 20 | Nov. 27 | Dec. 4 | Dec. 11 | Dec. 18 | Dec. 25 | Jan. 1 | Jan. 8 | Jan. 15 | Jan. 22 | Jan. 29 | Feb. 5 | Feb. 12 | Feb. 19 | Feb. 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Kansas** | 21 | 37 | 35 | 29 | 35 | 28 | 32 | 40 | 30 | 23 | 28 | 44 | 24 | 31 | 59 | 30 |
| **Oklahoma** | 86 | 60 | 106 | 86 | 73 | 75 | 95 | 76 | 78 | 60 | 92 | 85 | 71 | 85 | 100 | 66 |
| **Arkansas** | 18 | 10 | 16 | 10 | 22 | 11 | 15 | 10 | 18 | 10 | 12 | 13 | 28 | 11 | 28 | 13 |
| **Louisiana** | 15 | 6 | 15 | 17 | 15 | 15 | 7 | 12 | 15 | 17 | 20 | 23 | 23 | 37 | 23 | 21 |
| **Texas** | 171 | 174 | 126 | 253 | 203 | 210 | 199 | 167 | 111 | 162 | 153 | 150 | 146 | 176 | 201 | 233 |
| **California** | 23 | 25 | 23 | 23 | 22 | 42 | 40 | 17 | 25 | 28 | 35 | 35 | 31 | 34 | 26 | 35 |
| **Total** | 334 | 312 | 321 | 418 | 370 | 381 | 388 | 322 | 277 | 300 | 340 | 350 | 323 | 374 | 437 | 398 |

### TEXAS

**Archer County**—M. L. Richards, Megargel, Fee 1, B 86, Megargel sur, center of blk. Magnolia Pet. Co., Dallas, Gilding-Lauster 1, S. P. Ry sur, 150 ft to S and W lines. Tidal Oil Co., W. T. Waggoner Bldg., Fort Worth, H. S. Griffin 1, S 1, B 3, H&TC Ry sur, 750 ft to W and 150 ft to S line. Spoonts, McElreath & Cook, Harvey-Snider Bldg., Wichita Falls, Megargel School District 1, 2433 TE&L sur, center. Hunt & Seigler, Box 126, Olney, J. J. Coons 2, 2422 TE&L sur, 150 ft to N and E lines. Wichtex Oil Co. & Dixie Oil Co., Wichita Falls, A. P. Jackson 6, W. B. Aldridge sur, 150 ft to N and 200 ft to W line. Burns & Maxson, Wichita Falls, E. T. Brown 5, B 85, Amer. Trib. sur, 300 ft to S No. 4; G. Parrish 1, B 40, Amer. Trib. sur, 150 ft to S and E lines; A. P. Jackson 2, B 136, W. B. Aldridge sur, 150 ft to W and 450 ft to S line. Texhoma Oil & Ref. Co., Wichita Falls, D. L. Wolf B-1, S. P. Ry sur, 150 ft to N and 810 ft to E line. A. D. Montgomery, Staley Bldg., Wichita Falls, W. E. Hutchinson 5, B 123, Amer. Trib. sur, 300 ft N No. 2. Muse & Robertson, Box 434, Wichita Falls, A. P. Jackson 3-B, W. B. Aldridge sur, 150 ft to S and E lines. Fisher & Gilliland, City Nat. Bank Bldg., Wichita Falls, J. F. Rogers 8, 2407 TE&L sur, 316 ft N No. 1, Barkley & Meadows, Wichita Falls, L. F. Wilson 21, B 88, Amer. Trib. sur, 450 ft to center of W line. Waite Phillips Co., Tulsa, Okla., O. Albright 1, Hooper & Wade sur, 150 ft to W and 1170 ft to S line; T. B. Wilson 15, B. Howard sur, 390 ft to E and 750 ft to S line; 16, same sur, 300 ft E No. 13. L. J. Bryan, 1108 Tenth St., Wichita Falls, Coleman 1, B 74, Amer. Trib. sur, 150 ft to N and W lines. C. B. Long, First Nat. Bank Bldg., Wichita Falls, R. T. Stuart 1, B 152, Club Ranch, 150 ft to S and W lines. Prairie Oil & Gas Co., Ranger, J. Kreeger 6, 2434 TE&L sur, 300 ft S No. 3. Frank J. Darr, 1203 Travis St., Wichita Falls, W. P. Ferguson 1, S 1, S. P. Ry sur, 150 ft to E and 1050 ft to S line. Petroleum Prod. Co., City Nat. Bank Bldg., Wichita Falls, D. L. Wolf 6, S. P. Ry sur, 150 ft to W and 4902 ft to S line. C. W. Boller, 601½ Ohio St., Wichita Falls, J. Seay 1, B 107, Club Ranch, 349 ft to N and 311 ft to E line. Burton Drilling Co., Harvey-Snider Bldg., Wichita Falls, L. F. Wilson 1, Geraldine sur, 150 ft to N and E lines. Shasta Oil Co., Wichita Falls, Mangold 6, Lazarus sur, 602 ft E No. 5. Gulf Prod. Co., Fort Worth, P. Siegel 14, S 22, Amer. Trib. sur, 119 ft E No. 7; L. M. Hayter 2, 2433 TE&L sur, 150 ft to N and W lines; L. W. McCrory E-1, S 121, Amer. Trib. sur, 250 ft to W and 150 ft to S line; P. Siegel 13, E. Hall sur, 325 ft S No. 10; R. O. Prideaux 1, W. J. Fraley sur, 150 ft to S and W lines; A. P. Nichols 24, S 37, Amer. Trib. sur, 400 ft E No. 17.

**Austin County** — Malloy, Knolle, 24th and Postoffice St., Galveston, C. F. Knolle 3, J. F. Pettus sur, 985 ft to center of E line.

**Atascosa County**—Helvetia Oil Co., San Antonio, J. Weimers 10, 334 Duck sur, SW of No. 2.

**Brown County** — Hubble Oil & Ref. Co.

Cisco, J. H. Allen 1, J. Delgado sur, 550 ft to E and 200 ft to S line. States Oil Corp., Box 957, Eastland, J. H. Allen A-2, 789 Delgado sur, 150 ft to S and W lines. L. G. Bradstreet, Box 411, Cross Plains, W. B. Strickland 1, B 20, C. C. S. L. sur, 1050 ft to W and 150 ft to S line. McCarter & Street, Cisco, J. H. Allen 1, Delgado sur, 150 ft to S and E lines. H. P. Evans, Brownwood, L. L. Childress 1, J. Armendaris sur, 160 ft to N and E lines. Mike Imbs, Fort Worth, R. M. Graham 1, B 137, J. Brown sur, 300 ft to W and 150 ft to S line. J. M. Huber of La., Inc., Box 147, Breckenridge, J. Byrd 2, S 148, W. B. Travis sur, 150 ft to S and W lines. Arkansas Fuel Oil Co., Box 94, Shreveport, La. J. G. Gaines 1, J. Plunkett sur, 300 ft S and E lines. Prairie Oil & Gas Co., Ranger, F. W. Turner 1, M. Duncan sur, 2190 ft to N and 1350 ft to W line. Foster & Henderson, Burkett, J. P. Helms 1, A. White sur 161, 650 ft to N and 150 ft to E line. Williams & Forster, Coleman, J. P. Helms 1, 161 A. White sur, 300 ft to N and 500 ft to W line. J. H. Haynes, De Leon, J. P. Reed 1, S 119, M. Goodman sur, 2000 ft to N and 600 ft to E line. Gilman, McMurray et al, Box 117, Cisco, W. H. G. Chambers 7, W. B. Smith sur, 1055 ft to W and 155 ft to S line; 8, same sur, 1055 ft to W and 200 ft to N line. J. W. Moore, Brownwood, W. M. Lehman 1, S 15, HT&B Ry sur.

**Bexar County** — Associated Pet. Co., Fort Worth, S. A. St. John 1, A. J. Evant sur, 150 ft to N and 160 ft to W line; Smith Hrs. 4, S. Smith sur, 200 ft to S and W lines; S. Smith 9, same sur, 300 ft S No. 3.

**Baylor County**—Murchison & Fain Oil Co., Wichita Falls, W. H. Portwood 1, W. Godden sur, 450 ft to N and 150 ft to E line. Magnolia Pet. Co., Dallas, W. H. Portwood 5, S 2412, TE&L sur, 400 ft E No. 3. M. D. Heist, Putnam, M. Hughes 3, S 6, D&D Asy. sur, 1000 ft W No. 1. Dailey & McGee, J. C. Clements 3-A, E 16, Bayland Asy. sur, W. O. Childs, Moran, G. Anthony 1, S 56, L. A. L. sur, 750 ft to N and 1050 ft to W line. W. B. Flynn, San Jacinto Life Bldg., Beaumont, L. J. Kelly 5, 2281 TE&L sur, 300 ft S No. 4. Borealis Oil Co., Box 818, Cisco, H. Wagley H-16, S 2, D&D Asy. sur, 300 ft E No. 7. J. G. Cornelius, Brooks Hotel, Moran, S. S. Diller 1, S 55, L.A.L. sur, 150 ft to S and E lines. W. C. Leak, Cisco, J. A. Heyser 2, S 22, Bayland Asy. sur, 450 ft to N and 1200 ft to E line. St. Mary's Oil & Gas Co., St. Mary's, W. Va., S. M. Eubanks 9, 2287 TE&L sur, 300 ft S No. 8. West & Fee, First Nat. Bank Bldg., Cisco, J. S. Burman 7, 2288 TE&L sur, 300 ft S No. 3. Warren & Hayes, Box 576, Cisco, B. E. Rutherford 24, S 8, Bayland Asy. sur, 450 ft to N and E lines. A. S. McDonald, Box 345, Putnam, R. D. Williams 8, 2995 TE&L sur. Shertzer Bros., Cisco, Shackelford 13, 2228 TE&L sur, 150 ft to N and W lines J. P. Booles, Cisco, A. W. Warren 1, 2030 TE&L sur, 150 ft to S and E lines; 2, same sur, 450 ft W No. 1; 3, same sur, 250 ft NW No. 2; 4, same sur, 250 ft NW No. 1; 5, same sur, 450 ft W No. 2; 6, same sur, 250 ft NW No. 5; 7, same sur, 450 ft W No. 5; 8, same sur, 250 ft NW No. 7; 9, same sur, 150 ft to S and W lines. O. L. Albritton et al, Cisco, Blk. 62 No. 1, Cross Plains sur, center of blk; 1, Centreal Add., center of blk 51; Blk. 61 No. 1, Cross Plains sur, center. Bearman & Francis, Gude Hotel, Cisco, J. S. Burman 5, 2288 TE&L sur, 1250 ft to W and 450 ft to S line.

**Clay County**—Cooper, McLaughlin & Trout, Perkins-Snider Bldg., Wichita Falls, E. Lynsky 1, B 55, Specht Col. sur, 150 ft to S and W lines. J. T. Cumley, Wichita Falls, Stine 2, B 34, P.C.S.L. sur, 50 ft W No. 1. Western Oil Corp., of Texas, Brown Bldg., Wichita Falls, W. H. Meyers 1, B 25, P.C.S.L. sur, 150 ft to N and 260 ft to W line. Mid-West and Gulf of Texas, Mayo Bldg., Tulsa, Okla., W. L. Sewell A-7, B 22 P.C.S. L. sur, 400 ft to N and 225 ft to W line.

**Coleman County**—Canyon Oil & Gas Co. & Cromwell Oil & Gas Co., Cross Plains, J. W. Harris 15, J. Saunders sur, 600 ft S No. 13; 16, same sur, 600 ft N No. 14. B. Webster, 511 Broadway, Cisco, J. C. Watson 1, 163 Wm. Mason sur, 450 ft to S and W line; 2, same sur, 150 ft to S and W lines. Bradshaw & Emerson, Cross Plains, E. Watson 1, 163 Wm. Mason sur, 150 ft to N and W lines.

**Caldwell County**—C. N. White, 120 W. Park Ave., San Antonio, F. A. Cardwell 3, same sur, 150 ft to N and W lines. Vogel & Jackson, Lockhart, E. A. Cardwell 1, F. Castillo sur, SE corner. Murchison & Fain Oil Co., San Antonio, Burdette 1, J. S. Roe sur, 150 ft to SW and 1050 ft to NW line. United North & South Oil Co., Luling, R. Rios 2-A, J. H. Hardy sur, 440 ft E No. 1; W. F. Mercer 10, Reaville & Caldwell sur, 150 ft to N and W lines.

**Comanche County**—J. T. Regan, Sipe Springs, W. H. M. Haile 2, S 1, L.C.S.L. sur, 600 ft S No. 1.

**Chambers County** — Mills Bennett, Second Nat. Bank Bldg., Houston, Kirby Pet. 1, H. Griffith sur, 375 ft to S and 75 ft to E line.

**Crockett County**—C. G. Cromwell, Best, L. P. Powell 2, S 2, B BB2, W. A. Miller sur, 250 ft to N and W lines.

**Grant County**—F. T. Connor, Dan Waggoner Bldg., Fort Worth, R. L. Penix 1, S 42, Twp 4S, B 42, center.

**Duval County**—Sun Oil Co., Dallas, R. V. Benavides 1, M. Arispe sur, 200 ft to N and W lines. Cintex Pet. Co., Box 636, Laredo, R. V. Benavides 2, S 10, M. Arispe sur, 505 ft NE No. 1. Magnolia Pet. Co., Dallas, H. A. Speer 1, S 245, 893 ft to N and 52 ft to E line. Cole Pet. Co., Laredo, M. Arispe 15, S 16, B 8, 150 ft to N and W lines; 16, B 10, 150 ft to NW and 450 ft to NE lines. Houston Gulf-Gas Co., Box 595, Houston, Moody-Seagraves 1, B 10, M. Arispe sur, 400 ft to S and E lines; Benavides 1, S 10, M. Arispe sur, 150 ft to N and W lines. R. Driscoll, Corpus Christi, Sweden 1, S 23, BS&F Ry sur, 1650 ft to W and 750 ft to S line. Moody-Seagraves, Box 595, Houston, C. R. Cole 1, S 10, B 9, M. Arispe sur, 450 ft to S and W lines.

**Eastland County**—A. S. Hatch Rising Star, Ramsey 1, S 504, S. P. Ry sur, 150 ft to S and E lines. R. J. Lobaugh, Eastland, W. T. Casey 1, S. J. Robinson sur, 150 ft to N and 300 ft to E line. J. W. Army, Eastland, C. W. Connylee 1, T. R. Foster sur, 250 ft to N and 600 ft to E line. Robert Oil Corp., Box 725, Breckenridge, R. L. Hand 1, S. J. Robinson sur. Cranfill & Reynolds, Cisco, M. J. Collins 1, S 3, H&TC Ry sur, 600 ft to W and 150 ft to S line.

**Fort Bend County**—Gulf Prod. Co., Houston, J. M. Moore 6, No. 80 German Emig. sur, 84 Vs to S and 2598 Vs to E line.

**Guadalupe County**—United North & South Oil Co., Luling, J. E. Allen 39, H. Cottle sur, 333 ft SE No. 12; 11, same sur, 306 ft SE No. 17.

**Gray County**—Texas Co., Wichita Falls, W. J. Brown 1, S 137, B 3, I&GN sur, 2000 ft to N and 1320 ft to W line.

**Hardin County** — Yount-Lee Oil Co., Beaumont, Gilbert 3, S. Jackson sur, south central. Minor Oil Co., Beaumont, Fee 75, S. Jackson sur, 80 ft SE No. 74; 76, same sur, 90 ft NE No. 74. Paraffine Oil Co., Beaumont, Fee 65, F. Green sur, 114 ft to N and 350 ft to W line. Rio Bravo Oil Co., S. P. Bldg., Houston, Cotton C, 501 J. F. Cotton sur, 8628 ft to W and 600 ft to S line. Lake View Oil Co., Sour Lake, Hardin Co. Oil Co. 46, S. Jackson sur, 300 ft to center of E line.

**Harris County** — Humble Oil & Ref. Co., Houston, Simms-Smith 68, Wm. Scott sur, 1278 ft to W and 1275 ft to S line. A. L. Fondren, Houston, Mason 2, J. B. Strange sur, 75 ft to S and 300 ft to E line. J. D. Clay, 2001 McGowen St., Houston, Invincible 10, Jas. Strange sur, 30 ft to N and 240 ft to E line.

**Harrison County**—Waterman, Cross & Ferguson, Waskom, C. B. Hickman 2, E. Pollock sur, 200 ft to N and E lines.

**Hutchinson County** — Cockrell-McIlroy Oil Co., Inc., Amarillo Bldg., Amarillo, H. E. Smith 2, S 14, B Y, M&C sur, 330 ft to N and W lines. Roxana Petroleum Co., South Bend, H. E. Smith 2, S 14, B Y, M&C sur, 260 ft to E and 930 ft to S line; B-1, S 11, B Y, M&C sur, 330 ft to N and 952 ft to E line. McIlroy Oil Co., Inc., Box 1023, Amarillo, H. E. Smith 3, S 5, B Y, M&C sur, 200 ft to E and 300 ft to S line. Phillips Pet. Co., Bartlesville, Okla., E. B. Johnson 1, M. Whitley No. 1 sur, 330 ft to N and W lines. Relief Oil Co., Amarillo, Smith & Copers 1, S 11, B Y, M&C sur, 330 ft to S & W lines.

**Jefferson County**—Lillian Oil Co., Alexander Bldg., Beaumont, Tyrrell 1, Veatch sur, 175 ft to S and W line; 2 same sur, 87 ft to center of W line; 3, same sur, W central.

**Limestone County**—H. E. West, Independence, Kans., Z. Anglin 1, A. Varela sur, 3100 ft to E and 3300 ft to S line. Magnolia Pet. Co., Dallas, J. Desenberg 8, P. Varela sur, 320 ft NE No. 6.

**Live Oak County**—G. E. Glasco, 133 Kayton, Ave., San Antonio, C. R. Tips 3, C. R. Tips sur, 150 ft to N and 175 ft to W line.

**Milam County**—Bynum & Noack, Rockdale, L. Walker 3, T. J. Chambers sur, 300 ft SW No. 4; 4, same sur, 150 ft to N and W lines. Rockdale Dev. Co., Inc., Rockdale, W. E. Gaither 4-B, Chambers sur, 150 ft to NE and 200 ft to SE line. Jennings Oil Co., Yoakum, H. A. Branch 12, T. J. Chambers sur, 325 ft to center of S line.

**McCulloch County**—C. J. Williamson, Jr., Lockhart, J. Penn 1, 957 E. Gruene sur.

**Montague County**—Pure Oil Co., Mexia, J. W. Maddox 5, H. S. Arnold sur, 370 ft E No. 3. Texas Co., Wichita Falls, J. B. Oldham 3, J. Chambliss sur, 250 ft W No. 2. Wood, Benton, Lesh & McCall, Nocona, R. Hynds 3, J. J. Walls sur, 334 ft S No. 2.

**Matagorda County**—Houston Gulf Gas Co., Box 595, Houston, W. H. Gray 1, Wm. Hadden sur, 1000 ft to E and 800 ft to S line.

**Marion County**—Clark & Greer Drilling Co., Box 1039, Shreveport, La., Lenoir 1, NE cor. Tholl Oil Co., San Jacinto Life Bldg., Beaumont, R. H. Harrell 3, M. G. Nall sur, 200 ft to N and W lines.

**Mitchell County**—Eastland Oil Co., W. T. Waggoner Bldg., Fort Worth, J. J. Handley 1, B 28, S 1, T&P Ry sur, 330 ft to N and E lines.

**Navarro County** — G. C. Dixon, 1115 W. Seventh St., Corsicana, W. L. Garrett 2, M. Beren sur, 150 ft to center of NW line.

**Orange County** — Gulf Prod. Co., Houston, Lee Hager 22, S. M. Luce sur, 250 ft N No. 20.

**Palo Pinto County**—Ochiltree & Davenport, Box 131, Ranger, R. S. Hinkson 1, S 74, T&P Ry sur, 1320 ft to N and E lines. W. P. Morris, Fort Worth, G. B. McDonald 1, S 26, T&P Ry sur, 500 ft to W and 600 ft to S line.

**Potter County**—A. D. Morton, Union Nat. Bank Bldg., Bartlesville, Okla., Conwell-Sweeney 1, M. Whitley No. 1, 330 ft to N and W lines.

**Pecos County**—Levi Smith et al, Best, M. A. J. Davis 1, S 44, B 3, M. J. Ashmore 150 ft to S and E lines. F. J. Quinby, Fort Stockton, E. W. Burnett 1, S 592, GC&SF Ry sur, 337 ft to W and 1245 ft to S line.

**Refugio County** — Houston Gulf Gas Co., Houston, F. V. W. Heard 2, Refugio sur, B 7, 286 ft to E and 186 ft to S line; W. Heard 2-A, same sur, 150 ft to S and W lines; J. A. Lambert 4, same sur, SE corner.

**Shackelford County**—Allen & Lyon, Wichita Falls, Jackson 1, S 66, Univ. Lands sur, 450 ft to E and 150 ft to S line. Harry Shulman, Box 1058, Breckenridge, J. Black 1, 511 TE&L sur, 160 ft to E and 300 ft to S line. Roberts, Chadwick & Payne, Breckenridge, C. Arndt 3, 597 TE&L sur, 40 ft NE No. 1. Ashley & Roach, Box 274, Moran, T. E. Hayden 6, S 114, Univ. Lands sur, 600 ft N No. 2 Kimmell & Dillard, Rob Waggoner Bldg., Wichita Falls, R. B. Elliott 1, S 18, L.A.L. sur, 150 ft to N and W lines. P. S. Kendrick, Albany, Black Bros. 1, 390 TE&L sur, 2000 ft N of S corner. E. W. Boyd, Box 77, Cisco, M. Crow 1, S 17 and 18, L.A.L. sur, 840 ft to W and 150 ft to S line. I. G. Shaw, Fort Worth, L. H. Royall 4, B 89, Univ. Lands sur, 150 ft to S and W lines. W. P. Henry, Kennedy Bldg., Tulsa, Okla., J. S. Dennis A, S 15, L.A.L. sur, 300 ft W No. B; B, same sur, NE corner; D, same sur, 450 ft to N and E lines. T. E. Jackson et al, Dallas, L. G. Hadley 1, S 57, T&P Ry sur, 453 ft to S and 1350 ft to E line. P. S. Kindrick, Albany, Black 3, 395 TE&L sur, 150 ft to SE and 450 ft to SW line.

**Stephens County**—Hucony Gas Co., Box 673, Breckenridge, H. G. Gandy 5, S 34, T&P Ry sur, 850 ft SE No. 3. Gulf Prod. Co., Fort Worth, B. F. Satterwhite 3, S 15, T&P sur,

# Maloneys for Gasoline Storage

That Maloneys are being used for gasoline storage is a conclusive tightness are the steel channels and strips with which all seams are tightness are the steel channls and strips with which all seams are reinforced, our specially developed gasketing, and the patented Maloney "crimp" giving accurate fit of parts at seams and joints.

*"Buck" Type Vacuum Pressure Valves and Vacuum Breakers Furnished*

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330 ft to S and W lines; J. M. Ward 2, S 30, T&P Ry sur, 990 ft W No. 2; I. A. Stoker 14, S 12, L.A.L. sur, 959 ft to N and 500 ft to E line; J. M. Ward 30, 1236 TE&L sur; R. T. Hopper 4, 1147 TE&L sur, 825 ft NW No. 1. Mid-Kansas Oil & Gas Co., Tulsa, Okla., G. W. Hill 14, S 17, S. P. Ry sur, 2717 ft to W and 500 ft to S line. Humble Oil & Ref. Co., Cisco, J. F. Brown 1, S 31, T&P Ry sur, 200 ft to N and W lines.

**Sterling County**—H. D. Rummel, Charleston, W. Va., L. T. Clark 2, S 8, GC&SF sur, B A, 330 ft to N and E lines.

**San Patricio County**—Houston Gulf Gas Co., Houston, J. B. Cage 1, Coleman-Fulton sur.

**Thockmorton County**—Humble Oil & Ref. Co., Wichita Falls, J. W. Stevens 1, B 22, C. C.S.L. sur, 1320 ft to S and 2745 ft to E line.

**Upton County**—Tidal Oil Co., W. T. Waggoner Bldg., Fort Worth, Union Land Co. 1, S 2, GC&SF Ry sur, 330 ft to N and E lines.

**Wichita County**—Jno. O'Neil, Wichita Falls, R. S. Allen 4, S 23, H&GN Ry sur, 150 ft to N and 450 ft to W line. H. C. Dickey, Cotton Exchange Bldg., Fort Worth, W. H. Robinson 1, A. R. Collins sur, 180 ft to N and 500 ft to E line. National Pet. & Ref. Co., Wichita Falls, E. F. Gaston 6, Jas. Walker sur, 300 ft S No. 3; E. F. Gaston 2, same sur, 300 ft W No. 1. Ascot Co., Wichita Falls, J. E. Roller 41, W. A. Grady sur, 250 ft to N and 500 ft to E line. Fowler, Gilchrist & Fowler, Staley Bldg., Wichita Falls, M. Dodson 1, W. H. Anderson sur, 150 ft to S and E lines. Cullum & Hamer, Box 1020, Wichita Falls, G. L. Woodard 1, B 248, Waggoner Co. sur, 450 ft to E and 150 ft to S line; 2, same sur, 150 ft to S and W lines; 3, same sur, 600 ft N of No. 1. Dale et al's First Nat. Bank Bldg., Wichita Falls, T. L. Burnett 10, S 9, HT&B Ry sur, 50 ft N No. 1-A. Dale Oil Corp., Wichita Falls, G. Jennings 21, S 12, HT&B Ry sur, 300 ft SE No. 6. Fisher & Jennings, Staley Bldg., Wichita Falls, S. B. Burnett 3, S 9, HT&B Ry sur, 52 ft E No. 1. Homer Lee, Wichita Falls, J. J. Weibner 12, BBB&C Ry sur, 300 ft S No. 11. Camp Oil & Gas Co., Wichita Falls, S. R. Munden 14, J. McCool sur. Jennings & Congers, Staley Bldg., Wichita Falls, Jennings 1, S 8, HT&B Ry sur, 250 ft to E and 150 ft to S line. Maer & Staniforth, City Nat. Bank Bldg., Wichita Falls, H. Hines 1, H&GN Ry sur, 150 ft to N and W lines. Petroleum Prod. Co., City Nat. Bank Bldg., Wichita Falls, H. Willis 8, BBB&C Ry sur, 340 ft W No. 3; 9, same sur, 340 ft W No. 8. Jeffers & Jeffers, Harvey-Snider Bldg., Wichita Falls, J. T. Harrell 1, B 4, D.C.S.L. sur No. 2, 150 ft to S and E lines. J. L. Art et al, Box 993, Wichita Falls, J. A. Terhue 5, J. M. Sharp sur, 300 ft SE No. 4. Gulf Prod. Co., Fort Worth, S. B. Burnett 36, S 1, T&NO Ry sur, 300 ft W No. 35; E. D. Collett 11, GC&SF Ry sur No. 1, 300 ft E No. 10; G. Jennings 14, S 11, HT&B Ry sur, 337 ft NE No. 9. J. W. Duncan, Wichita Falls, J. E. Parker 5, B 8, Cowherd sur, 203 ft to N and 150 ft to E line. Sterling & Suladie (Webb County). G. R. Ridgeway, Perkins-Snider Bldg., Wichita Falls, J. L. Powell 5, S 21, H&GN Ry sur, 65 ft NE No. 4. A. D. Robinson, Kirby Bldg., Dallas, J. E. Roller 28, W. A. Grady sur, 150 ft S No. 27. Empire Gas & Fuel Co., Staley Bldg., Wichita Falls, W. T. Waggoner 12-A, A. Gibson sur, 300 ft W No. 6. Magnolia Pet. Co., Dallas, S. L. C. Pratt 15, S 2, HT&B Ry sur, 300 ft N No. 13. Van Nest Oil Co., Burkburnett, Roller 7, D&D Asy sur, 450 ft to W and 3057 ft to S line. Rio Bravo Oil Co., S. P. Bldg., Houston, Fee C-12, S 31, H&TC Ry sur, 200 ft to N and 600 ft to E line; C-13; same sur, 300 ft W of No. C2G. A. C. Walker, Perkins-Snider Bldg., Wichita Falls, S. H. McCarty 14, S. O. Fowler sur, 150 ft to N and W lines; 15, same sur, 300 ft E No. 14. J. E. Jones, 1913 Filmore St., Wichita Falls, G. Jennings 4, S 12, HT&B Ry sur, 300 ft E No. 3. Texhoma Oil & Ref. Co., Wichita Falls, S. B. Burnett 5, S 3, SA&MG Ry sur, 1020 ft W No. 1. Gulf Prod. Co., Fort Worth, J. F. Miller 4, W. R. Eaves sur, 300 ft NW No. 3.

**Wilbarger County**—Roxana Pet. Corp., South

Bend, W. T. Waggoner 6, S 43, H&TC Ry sur, 220 ft to E and 660 ft to S line. E. B. Lawson, Nowata, Okla., Waggoner Est. 14, S 99, H&TC Ry sur, 50 ft W No. 10. Barkley & Meadows, Wichita Falls, W. H. Stephens 6, S 83, H&TC Ry sur, 340 ft W No. 5. Bridwell & Heydrick, Wichita Falls, W. H. Stephens 13, S 83, H&TC Ry sur, 40 ft E No. 7. Landreth Prod. Corp., Box 443, Vernon, W. T. Waggoner 2, S 43, H&TC Ry sur, 220 ft to N and E lines; W. T. Wagogner 2, S 47, H&TC Ry sur, 330 ft to S and E lines.

**Webb County** — Crown Central Pet. Corp., Houston, Keene 4, B 14, A. de Arriba sur, 360 ft E No. 3. Laredo Oil Co., Laredo, J. M. Garcia 10, S 452, 200 ft NW No. 1. Sterling & Suladie, Mirando City, C. H. Webster 1, 648 BS&F Ry sur, 200 ft to N and W lines.

**Wheeler County**—Midwest Exploration Co., Amarillo Bldg., Amarillo, G. W. Porter 2, S 14, B 27, H&GN Ry sur, 320 ft to W and 990 ft to S line; W. C. Company 1, S 12, B 27, H&GN Ry sur, 330 ft to S and E lines.

**Young County**—Gulf Prod. Co., Fort Worth, R. Campbell 4, 1452 TE&L sur, 300 ft S No. 3. Batex Oil Co., Inc., Wichita Falls, W. H. Portwood 1, 1578 TE&L sur, 150 ft to E and 450 ft to S line. J. F. Baker, Avondale Hotel, Wichita Falls, J. W. Jacks 1, B 23, Y. C. S. L. sur, 1270 ft to W and 150 ft to S line. Texas Co. & Prairie Oil & Gas Co., Ranger, G. M. Borenn 4, R. Newman sur, 958 ft to N and 470 ft to W line. Pitzer & West, Breckenridge, J. W. Burgess 1, Smith sur, 155 ft to S and E lines. Noble-Thomas Oil Co., Wichita Falls, A. B. Street 3, 2444 TE&L sur, 300 ft S No. 1.

## ARKANSAS

**Nevada County**—Keystone Pet. Co.'s J. P. Waters 8, 10-14-21, NEc W½ NE¼ NW¼. Smitherman & McDonald's C. W. Waters 3, 2-14-21, 150 ft S and 660 ft W of NEc SW¼ SE¼.

**Ouachita County**—Ohio Oil Co.'s Goodwin 7, 29-15-15, 1052 ft N and 209 ft W of SEc SW¼ SE¼. Simms Oil Co.'s Reynolds 9, 32-15-15, 200 ft S and 330 ft W of NEc of section.

**Union County**—H. L. Hunt's Swilley 1, 28-16-16, NEc SE¼ NE¼. E. M. Jones' Andres 1, 16-17-16, NWc SW¼ NE¼. Pekrol et al's Smith 2, 17-16-15, SEc NW¼ NW¼ SW¼. J. D. Reynolds' Dumas 3, 15-17-16, NWc of section. Rovenger Oil Corp.'s Goodwin 2, 16-17-16, NEc NE¼ NW¼. Simms Oil Co.'s Dumas A-2, 9-17-16, 200 ft N and W of SEc NE¼ SW¼. Thurman et al's Houston 2, 12-16-16, SEc N½ SE¼ NE¼. Williams et al's Goodwin 2, 16-16-15, NWc SW¼ NW¼. Wingfield et al's Cruse 1, 27-17-16, SWc SW¼ NE¼.

## LOUISIANA

**Acadia Parish**—Coastal Oil & Fuel Corp., Crowley O. & M. Co. 91, 48-9s-2w, 450 ft N and 360 ft E of SW cor of sec. Port City Oil Co., Jennings-Heywood 5, 41-9s-2w, 2500 ft NW of SE cor of lot 1, fractional sec 41 and 950 ft E of W line. Utopia Oil Co., Inc., Jennings-Heywood-Clement 1, 46-9s-2w, 1230 ft N and 180 ft E of SW cor of sec.

**Boosier Parish**—Autrey Oil Co., Snider 1, 22-19n-11w, 100 ft S and 400 ft E of NW cor NW¼ of NE¼.

**Caddo Parish**—H. J. Bussa, Allen 7, 23-22n-15w, 400 ft N and 300 ft E of SW cor N½ of SE¼ of NW¼. Gulf Ref. Co. of La., J. M. Byrd 1, 2-19n-14w, 177 ft S and 177 ft E of center of sec; Levee Board U-4, 16-20n-16w, 2940 ft W and 1020 ft S of NE cor of sec. The Texas Company, Harrell 52, 12-21n-16w, 1620 ft N and 330 ft W of center of sec.

**Claiborne Parish** — Triangle Drilling Co., Cupp 1, 22-23n-5w, 247 ft N and 219 ft E of center of sec.

**La Salle Parish**—Hamilton-Baker, Inc., Bennett 2, 25-10n-1e, 250 ft N and 300 ft E of SW cor SW¼ of NW¼; Bennett 3, 25-10n-1e, 100 ft N and 805 ft E of SW cor SW¼ of NW¼. H. L. Hunt, State of La. 1, 26-10n-1e, 1185 ft S and 1476 ft W of NE cor of sec. Keisker et al, Russell 1, 25-10n-1e, 150 ft S and 150 ft E of NW cor SW¼ of NE¼ of SE¼. Louisiana Oil Ref. Corp., Tremont Lbr. Co. B-15,


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## *are not high in price*

*Fig. 540*

*18 x 5 x 18" Duplex Plunger End Packed Type Pump for 1000 lbs. working pressure. 375 barrels per hour.*

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Cleveland Houston Tulsa Denver

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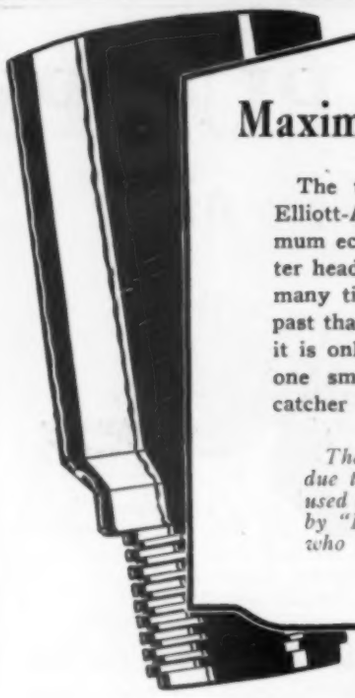

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25-10n-1e, 200 ft N and 200 ft E of SW cor of NE¼; Tremont Lbr. Co. B-27, 25-10n-1e, 150 ft N and 150 ft E of SW cor of sec; Tremont Lbr. Co., B-28, 25-10n-1e, 150 ft N and 150 ft W of SE cor SW¼ of SW¼. Roberts et al, J. D. Russell 1, 25-10-n-1e, 150 ft S and 150 E of NW cor NW¼ of SE¼.

**Morehouse Parish**—Natural Gas Prod. Co. of La., Crossett 18, 27-23n-5e, 1000 ft W of center of sec.

**Ouachita Parish** — G. E. Jordan, Miller & Roberts 1, 12-18n-4e, 930 ft S and 930 ft E of NW cor of sec.

**Webster Parish**—Alabama Pet. Co., Robbins B-1, 21-21n-10w, 330 ft N and 330 ft E of SW cor NE¼ of SW¼. The Ohio Oil Co., Bodcaw Lbr. Co. 37, 21-21n-10w, 330 ft S and 330 ft W of NE cor NW¼ of SW¼.

### CALIFORNIA

**Dominguez**—Union Oil Co.'s Callender 13, 33-3-13. Shell Co.'s Reyes 3-B, 33-3-13.

**Elk Hills**—Pacific Oil Co.'s 208, 35-30-24.

**Huntington Beach**—Standard Oil Co.'s Huntington B-45, 3-6-11.

**Kern County**—B. C. Mackey's 1, 23-11-11.

**Long Beach**—Southern States Pet. Corp.'s 4, 13-4-13. Ort & Homer's 1, 18-4-12. C. W. Camp's 1, 13-4-13. E. J. Miley's Los Cerritos 4, 13-4-13. Wilshire Oil Co. Inc.'s Wilshire A-2, 13-4-13. Wilshire Oil Co. Inc.'s Wilshire A-3, 13-4-13. F. S. Jones' 1, 13-4-13. Bush-Voorhis Oil Co.'s 16, 13-4-13. Charles B. Colby's Extension 1, 13-4-13. A. J. Delaney's Delaney 7, 13-4-13; Delaney 23, 13-4-13; Delaney 10, 13-4-13. Elbe Oil Land Dev. Co.'s Elbe 8, 13-4-13. Julian Pet. Corp.'s Laughlin 1, 13-4-13. E. J. Miley's Los Cerritos 3, 13-4-13. A. J. Delaney's Delaney 14. 13-4-13; Delaney 24, 13-4-13; Delaney 25, 13-4-13; Delaney 29, 13-4-13.

**Los Angeles County**—B. J. Jeffrey's 2, 7-1-14.

**Midway**—Honolulu Cons. Oil Co.'s 41, 4-32-24. The United Oil Co.'s United 2, 2-31-23; United 3, 2-31-23. Pacific Oil Co.'s 59, 33-31-24.

**South Mountain** — Oak Ridge Oil Co.'s South Mountain 7, 13-3-21.

**Torrance**—Shell Co.'s Redondo Comm. 11, 8-4-14.

**Ventura**—Shell Co.'s Gosnell 21, 28-3-23.

**Wheeler Ridge**—Standard Oil Co.'s Kern Co. Lease No. 2, 23, 27-11-20.

**Whittier**—Petroleum Securities Co.'s Rideout Heights 1, 17-2-11. Pan American Pet. Co.'s Broderick 1, 17-2-11.

### KANSAS

**Butler County**—Empire Gas & Fuel Company No. 162 Wilson, center of the east half of the west half of the northwest of 8-25-5. Kismet No. 1 Kimble, southwest corner of the northwest of 8-26-6. Gypsy Oil Company No. 1 Kistler, southwest corner of 7-27-6. Mid-Continent Oil Company No. 4 Jobe, southeast corner of the northeast of the southeast of 28-27-7. Manhattan No. 5 Jobe, northeast corner of the southeast of the southeast of 28-27-7. Federal Oil Company No. 4 Laughton, northeast corner of the southwest of the northeast of the northeast of 33-27-7.

**Chautauqua County**—Griffith, Bell et al No. 1 Oliver, northeast corner of the northwest of the northwest of 1-32-10. Griffith, Strube Oil Company No. 1 Jeanneret, southwest corner of the southeast of the southeast of 11-32-10.

**Elk County**—Glaiman & Barber No. 1 Donald, southeast corner of the southwest of the northwest of 12-30-9. Manhattan Oil Company et al No. 1 Finley, center of the east half of the northwest of the northwest of 11-30-11. Gillespie No. 1 La Wille, northeast corner of the southwest of 29-31-11.

**Phillips County** — Phillips Petroleum Company No. 1, southeast of 13-5s-18w.

**Osage County**—McMahon & Leonard No. 1 Blank, center of the southeast of the northwest of 32-18-14.

**Greenwood County**—Day et al No. 1 Fuller, southeast corner of the southwest of 1-22-10. Mississippi Valley Oil Company No. 1 Evans, southwest corner of 7-22-10. Sinclair Oil & Gas Company No. 38 Browning, southeast corner of the northwest of the southeast of 19-22-10. Phillips Petroleum Company No. 4 Prather.

northeast of the southeast of the southeast of 30-22-11. Empire Gas & Fuel Company No. 11 Kipfer, northeast corner of the southwest of the southeast of 11-22-11. Simmons et al No. 2 Frankhauser, northeast corner of the northwest of 4-22-12; No. 3 Frankhauser, southwest corner of the northeast of the northwest of 4-22-12. Darby et al No. 1 Holderman, southeast corner of 9-22-12. Abel Rhodes et al No. 1 Broddick, northeast corner of the northwest of 23-22-12. Conway et al No. 1 Noler, northeast corner of the southeast of 9-23-9. Roxana Petroleum Corp., No. 7 Marshall, southeast corner of the northeast of the northwest of 34-24-9. Murphy et al No. 1 Linderman, old well deepened, northwest corner of the southwest of the northwest of 29-24-11. McGinnis et al No. 3, "D" Wiggins, northwest corner of the northeast of 30-24-11. Syndicate Oil Company No. 1 Shock, southwest corner of the northwest of the southwest of 6-24-11. Roth & Farout No. 1 Henderson, northwest corner of the southwest of 1-26-11; No. 1 O'Connor, southwest corner of the southeast of 2-26-11.

**Lyons County**—Phillips Petroleum Company No. 8 Lauck, southeast corner of the southwest of the southwest of 33-21-12.

## OKLAHOMA

**Kay County**—Comar Oil Company No. 10 Priboth, northwest of the southeast of the northwest of 21-29-1w; No. 11 Duncan, southwest of the southeast of the southwest of 21-29-1w; No. 1 McCormick "B" center of the northwest of the southwest of the southeast of 1-29-1w, old well deepened.

**Noble County**—Mid-Co. Petroleum Corporation No. 15 Brumfield, center of the northeast of the southwest of the northwest of 22-23-2w.

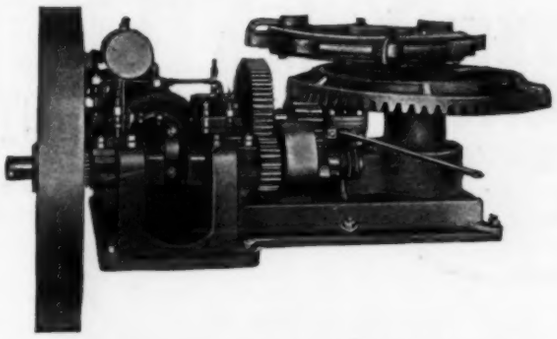
**Pawnee County**—Bu-Vi-Bar Petroleum Company No. 1 Canfield, northwest corner of 31-22-7. Jim Glenn Oil Company No. 4 Burgman, southeast corner of 16-20-6. Cortex Oil Company No. 1 Gallard, northwest corner of the southeast corner of 16-20-6. Cortez Oil Company No. 4 Childers, southeast corner of the northeast of the northwest of 7-20-8. Sinclair Oil & Gas Company No. 5, Brentenall, southwest corner of the northeast of 10-20-8, old well deepened. Southwestern Oil Fields Corporation No. 19 Wasson, center of the northwest of the southeast of the northwest of 24-20-8.

**Payne County**—Tidal Osage Oil Company No. 1 Combs, northeast corner of the southeast of the southwest of 12-19-1w. Magnolia Petroleum Company No. 4 Payne, northwest corner of the northeast of the northeast of the northeast of 6-17-4.

**Wagoner County**—Eastern Okla. Petroleum Company No. 5 S. Tiger, center of the south line of the southeast of the northwest of the southwest of 21-18-16.

**Creek County**—Empire Gas & Fuel Company No. 2 Walker, southeast corner of the northwest of the northwest of 32-14-10. F. R. Billingslea No. 1 Canard, northwest corner of the southwest of the southeast of 29-19-8. Pure Oil Company No. 1 King, northeast corner of the southeast of 12-18-8. Aztec Oil Company No. 7 Johnson, northwest corner of the south west of the southeast of 14-17-8. Transcontinental Oil Company No. 3 Freeman, northeast corner of the southeast of the southwest of 14-17-8. Lima Oil Company No. 1-A Big Pond, southwest corner of the northwest of the northwest of 30-15-8. Riverland Oil Company No. 1 Johnson, old well deepened, northwest corner of the northeast of the southwest of 28-18-11. Munn Brothers No. 2 Strip, northeast corner of the northwest of the northeast of the northwest of 6-18-12. Kennedy et al No. 3 Strip, northwest corner of the northeast of the northwest of 16-18-12, old well deepened. J. H. Wright No. 3 Holden, southeast corner of the northwest of the southeast of 23-17-10. J. H. Wright No. 10 Dawson, center of the south line of the northeast of the southwest of 24-17-10. C. G. Tibbens No. 23 Unallotted, southwest corner of the northeast of 30-15-9; No. 24 Unalloted, northeast corner of the southwest of 30-15-9, twin; No. 35 Unalloted, center of the north line of the northwest of the southwest of 30-15-9. Phillips Petroleum Company No. 1 Renhart, southwest corner of the northwest of 7-14-9.

**Lincoln County**—Amerada Petroleum Cor-

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With Maximum stroke of 28 inches. Weight of jack is 1500 pounds.

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This JENSEN JACK is similar in every way to our Improved Model except that it is an extremely heavy type and is especially suitable for satisfactorily handling deep well pumping. It is built to lessen wear and tear on machinery as the Counter-Balance actua'ly does balance the rod in the well.

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Nowata, Oklahoma


poration No. 4 Hopkins, southeast corner of the northeast of the southeast of 2-14-5. Phillips Petroleum Company No. 4 Patterson, northeast corner of the southwest of the northeast of 10-14-5; No. 5 Patterson, southwest corner of the southeast of the northeast of 10-14-5. Shaffer Oil & Refining Company No. 4 Nickel, northwest corner of the northeast of the northeast of 10-14-5; No. 5 Nickel, southeast corner of the northwest of the northeast of 10-14-5. Lathrop & Wicker No. 1 Smith, southwest corner of the northeast of 11-14-5.

**Seminole County**—Roxana Petroleum Corporation No. 1 Aldridge, northwest corner of the southwest of the northwest of 17-9-8. Magnolia Petroleum Company No. 4 Carolina, center of the southeast of the southwest of the northwest of 14-8-7. T. B. Slick No. 3 Jackson, center of the northeast of the northwest of the southwest of 14-8-7. W. R. Ramsey No. 2 Amos, center of the northwest of the southeast of the southeast of 31-8-8, old well deepened. Magnolia Petroleum Company No. 1 Jackson, southwest corner of the northeast of 22-7-7. Dixie Oil Company No. 1, Knight "A" center of the northeast of the northwest of the northeast of 6-7-8, old well deepened.

**Hughes County**—Barnsdall-Waite Phillips No. 1 D. Cain, northwest corner of the northeast of the southeast of 1-9-9, old well deepened.

**Coal County**—Galbreath et al No. 1 Pate, northeast corner of the southeast 18-2n-9e.

**Garvin County** — Magnolia Petroleum Company No. 9 Harris, center of the southwest of the southwest of the northwest of 16-1n-3w.

**Tulsa County**—Holmes et al No. 1 Timothy, northwest corner of the northeast of the northwest of 23-19-10. Hutt & Hutt No. 6 Smith, old well deepened, center of the northeast of the southeast of 17-19-11. Pennock Oil Company et al No. 10 Thomas, center of the east line of the northwest of the northwest of 20-19-11. Holmes et al No. 1 Owen, center of the east line of the northeast of the southwest of 11-17-13.

**Okmulgee County** — Anglo-Texas Oil Company & Wangerine No. 1 Tecumseh, northwest corner of the southwest of the northwest of 29-16-14. T. A. Johnson No. 4 Havercamp, center of the north line of the northwest of the southwest of the northwest of 22-14-12. H. G. Fair No. 4 Grayson, northwest corner of the northeast of the northwest of the southeast of 7-13-12. H. E. Clark No. 10 Haskins, center of the east line of the southwest of the southeast of 22-13-12. H. & M. Oil Company No. 3 Grayson, old well deepend, northwest corner of the southwest of the northwest of 16-11-12. Wick Petroleum Company No. 5 Stephens, center of the south line of the southwest of the northwest of 10-14-14. F. E. Cuseck No. 7 Wiley, northeast corner of the southeast of the northwest of 29-13-14.

**McIntosh County**—Tiger Mountain Oil Company No. 1 A. Richardson, southwest corner of 12-11-14.

**Okfuskee County** — Independent Oil & Gas & Anglo Texas Oil Company No. 2-A Sugar, center of the northeast of the southwest of the northeast of 13-12-11; Independent-Anglo-Texas No. 10-A Sugar, center of the southeast of the northwest of the northeast of 13-12-11; Independent Anglo Texas No. 11-A, Sugar, center of the northwest of the southeast of the northeast of 13-12-11; Independent-Anglo Texas No. 1-B Sugar, center of the southwest of the southwest of the northeast of 13-12-11.

**Carter County** — Magnolia Petroleum Company No. 3 Fish, center of the southeast of the northeast of the southwest of 34-1s-3w; No. 1 Delman, northwest corner of the northwest of 2-2s-3w. Lathrop-Denman No. 1 Jennings, center of the southwest of the southeast of the southwest of 15-2s-3w. Skelly Oil Company No. 1 Pierce, center of the southwest of the northwest of the southwest of 8-2s-2w. Graham, Mineral Trust Company No. 13 Bennett, center of the north line of the southeast of the northwest of the northeast of 31-2s-2w. Pandem Petroleum Company No. 1 Lasher, center of the northwest of the northwest of the southeast of 8-5s-1w. Amerada Petroleum Corporation No. 15 Fish, center of the northwest of the southeast of 28-5s-1e.

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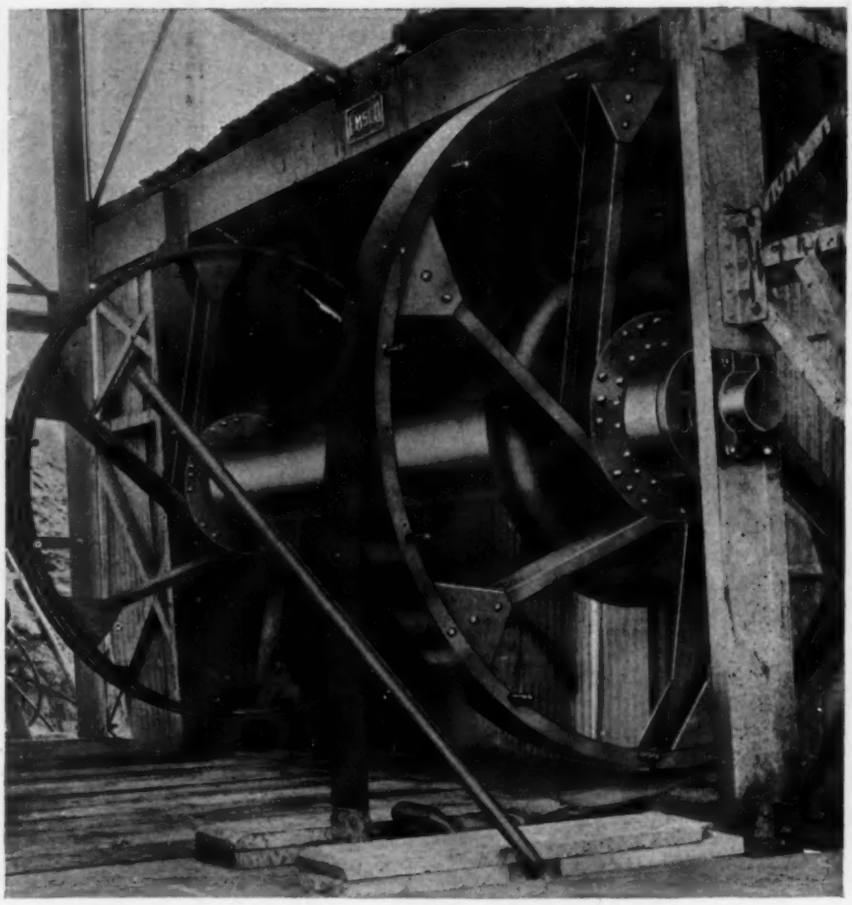

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MANUFACTURING COMPANY

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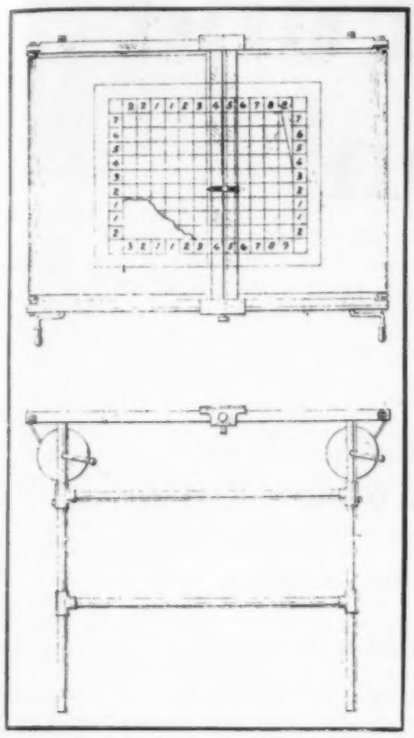
# NEW EQUIPMENT, CATALOGS, BULLETINS, BOOKS



## Portable Map Holder With Finder for Land Departments

A novel device in the form of a portable map holder with a "finder" attachment, designed to be particularly useful in land departments of the industry, has been invented by W. J. Morris of Denver, Colo. It is claimed that, after several months usage, this device has been found to be very practical, and almost indispensable as a means for having state maps always convenient, and also a means of locating instantly thereon any township or town.

Briefly described, the device consists of a table supported by a plurality of legs, with rollers attached underneath and near the ends of the table. The "finder" attachment consists of a slide, or straight edge, extending across the table north and south and movable east and west; the pointer attached to the slide and movable transversely—north and south. A strip of cloth or paper with a map, or maps, printed or mounted thereon, which is to be used in connection with the device, is attached to the rollers and the strip travels to the left or right across, or over, the table. When it is desired to locate any certain township or town on the map, the strip is run across the table until the proper state is arrived at; the slide is then moved east or west to a column of township numbers, and the pointer is fixed at the proper township; the slide is then moved into the proper range, and the pointer rests at the township desired. This whole operation of first finding the state, then locating thereon any certain township or town requires a matter of only a few seconds. It is claimed that with a strip containing 13 maps representing an aggregate of approximately 26,000 townships, any one of the townships can be located on the map within a maximum of ten seconds.

This device is being used in the land department of one of the large oil companies as a part of its index system. For instance—in each square representing a township, (varying from one-fourth-inch to one-half-inch square) is a figure or set of figures which represent the plat-book page or the number of a large size map showing the township on a large scale. Another figure or set of figures, in another color, may relate to some other data—such as geological report covering, etc. The device has been built of dimensions to accommodate standard maps, such as are found in Rand McNally's standard atlas.

Further information may be obtained by communicating with W. J. Morris, 528 Patterson Building, Denver, Colorado.

## Derrick Escape Cuts Down Hazard of Derrick Work

An invention to provide the derrick man a quick and safe means of escape in case of fire or blow-out has been patented by L. G. and W. A. Rambin, Smackover, Arkansas, P. O. Box 1088.

This escape provides a line with a carrier that fastens to the thrible or fourble board, and extends out 128 or 144 feet from the derrick. The carrier is held up automatically at the thrible board.

In case of emergency the derrick man takes off his belt and steps into the carrier. The carrier is provided with a brake which enables the workman to come down as fast or as slow as he may desire.

As soon as the carrier is empty it automatically goes back to the thrible board. From 30 seconds to one and one-half minutes are required to make the round trip.

Complete information can be obtained by corresponding with either of the inventors.

## Instruction Book Gives Much Engine Information

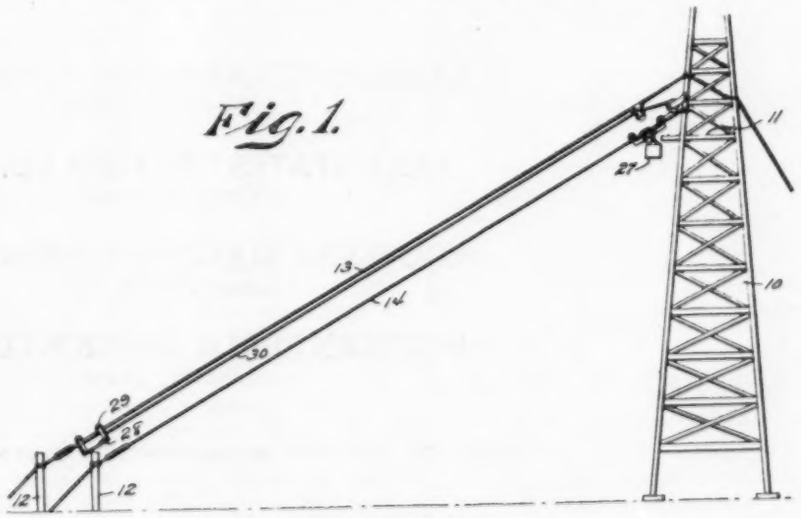
Operators of heavy duty gas engines will appreciate a new book of instructions on engine operation, released a short time ago by the Climax Engineering Company, Clinton, Iowa.

The following excerpt is taken from the book: "To start a heavy duty gas engine, retard the spark by pulling the magneto breaker housing lever up as far as it will go. Set the impulse starter on the magneto unless it is automatic. If the engine has been standing more than a few minutes, pour a small quantity of gasoline through the priming cups in each cylinder. Set the choker of the carburetor about three-fourths closed. Throw out the engine clutch if it is fitted with one. If your engine is equipped with a starter, press the starting switch lever just long enough to get the first explosion of the engine. Release the lever immediately upon the engine starting. Open the carburetor choke and advance the spark by pushing the magneto breaker housing lever down. Allow the engine to run idle until warmed up before applying load.

"If the engine does not start immediately do not let the starting motor continue to turn over the engine.

Copies of this instruction book will be mailed on request to the company.

*Fig. 1.*




Safety Derrick Escape

# Cold Weather and Production

The Gulf Coast section has just passed through another cold spell. It is a fact that freezing weather cuts production and at the same time increases the cost of operation for all power installations except electric motors.

In many cases, the production lost would have been enough to pay the entire electric power bill for a month's normal operation.

If your production decreases and your fuel bill increases during cold weather, get in touch with our engineers at Lock Drawer 809, Beaumont, Texas. They will show why electrically pumped wells give increased production during all kinds of weather with a decrease in pumping cost.

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Liberty, Texas

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# LETTERS OF Paul Peebles P.S.G.

mi deer cleopatry

cleo hunny I hav bin workin mi brane tryin 2 think up a good patent for the oil bizness on account of I told yu sum times ago that I am goin 2 quit puttin 2 mutch of mi talents 2 the geeology bizness on account of it aint mutch 2 it enny moar & I am goin 2 be a engineer & put the most of mi fertile brane 2 patentin things 2 make the operashun of oil wells moar simpler & moar profiteerer 2 the men what owns pumpin wells. as is ushual in sutch cases when I set mi mine 2 werkin on sumthin like that, I hav hit on a good patent whitch ort 2 make me ritch if I can werk it out & if it werks whitch mabe it will. mi new patent is the peebles patent 3-in-1 oil recoverin prosess. I do not meen recoverin 3-in-1 oil, hunny, like mabe yu think I meen, but what I meen is a 3-in-1 sistum of recovverin oil.

I will explane a lot of detales sos that yu will no esackly what I meen.

well as yu no from hearin me talk about the problems of the oil bizness it is three importent & werrysome things about gittin oil after it has bin found & after it quits flowin from the well. A hole lot of oil is left in the hole, the persentage of it dependin a hole lot on wether mr. dorety or someboddy elst is talkin. ennyway it is conseeded that it is a hole lot of oil left in the ground. but I aint so mutch conserned now about how mutch is left evensually as I am on gittin out what in the ordernery corse of events is now recovvered by pumpin.

What I meen about the three problems is

(1) The oil has 2 be pumped out

(2) yu hav 2 hav a screan 2 keep the sand from pluggin her up and

(3) yu hav 2 seprate the oil from the water & bs when it is up.

well mi patent skeam will arrange all of this in 1 operashun so that it will redoos the expentses 2 the verry littlest so that the oil will be cheeper 2 git out & that meens that the peeple whitch gits it out will make moar munny.

it is a verry simple propersishun which wood hav bin atended 2 a long time ago only I hav always bin puttin mi talents 2 findin oil & drillin wells. it was easy for me 2 fix up a patent on it as soon as I thort about doin it.

the way she will werk is this. I will make a patent oil well skreen whitch is just a pipe with holes in it & when I set the screen in the well I will put some stuff whitch I will patent around the outside of the skreen like they alreddy do gravel in watter wells, only this stuff whitch I will put around the skreen will be a patent chemical stuff whitch will seperate the watter from the oil & also the bs so that in plase of gittin watter with the oil & treetin it out when it gits 2 the top, well she will just be cleen oil from the bottom of the well. & of corse that will meen that the sand will be seperated out of it also, so that expents will be saved. anuther savin will be in the amount of likwid whitch will hav 2 be lifted out of the hole. I do not meen esackly lifted hunny like mabe yu think I meen, but lifted is anuther way 2 say pump. when she pumps under mi skeam it will just be pure oil whitch cums out whitch will meen that the watter will be left in the ground & also all of the sand. under this skeam it will be a hole lot cheeper because oil is not as hevvy 2 lift as watter is & also sand & not havin no sand in the oil will meen a savin on the pump whitch will be so greezy with oil that it will not never ware out nor neether the rods because they will not never hav 2 be pulled or nuthin because if the pump does not ware out well yu will not hav 2 pull the rods.

I no that this skeam is goin 2 meet with a hole lot of oppersishun in sevral ¼s because it will hert the supply bizness whitch I hate 2 do on account of all the frends I hav got in the supply bizness, but I will make it up 2 them bi lettin them sell mit patent prosess at a good prophet 2 them, because I will sell so menny of them that I can take just a little of the prophets for mi self & let the supply boys hav the most of it.

Now I hav got the ideer all that is left for me 2 do is 2 patent me sum chemikal gravvel that will strane the water out of the oil threw the staner whitch I will also hav 2 make on account of it bein a dubble barrel outfit whilst all the present models of skreens is just single barrel. I will not bother with no pumps unlessen I find that it is a tendency for the watter 2 settle in the bottom of the hole after it is seprated out, in whitch events I will hav 2 make a pump whitch will not pay no atenshun 2 watter on the up stroke


## FOR SALE

About fifty barrels settled production in old field six miles southwest of Burkburnett, Texas. About twenty-five wells, newest one ten years old. Also, about twenty wells with five barrels total near Nowata, Oklahoma.

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MY NEW MAPS of Crockett County vicinity are FREE TO YOU FOR THE ASKING.

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W. T. Waggoner Bldg.
Fort Worth, Texas

Reference:
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**·tenacious· shale and sand**

next casing walls yield at once to the definite action of these bailers. Where chisel-bits, dart valves and other devices fail or are too slow, Baker Cleanout Bailers make record time with surprising ease. They rotate with jerk line or beam motion; the tapered, rounded points of the superior tool loosens the sand bridge next casing wall, forcing the core up through the flat valve.

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but will pump oil up, & vice versa will pump only watter on the down stroke. with a pump like that I cood make the watter keep circulatin around in the oil barin formashun & push the oil in2 the hole whitch wood be a mitey fine skeam.

I aint nevver pade mutch attenshun 2 the studdy of pumps, but if it is needed well I gess I can make that kind of a pump all okay whitch wood be anuther reverlashun 2 the oil bizness.

I am gittin in2 the rite end of the bizness just at the rite time on account of all the talk now is about gettin oil out of the ground without findin no moar. They hav bin talkin about superior & inferior uses of oil because it is sum peeple whitch is kinder afred that the oil will play out, but the gratest danger 2 the supply I hav saw in a long time is the interior uses of it which I hav herd about but hav not tride. I gess yu no sumthin about the use of petrolum oil for internal lubricashun of the human masheen the same as caster oil, but I aint nevver took none like that sinct they uster make me take caster oil & it aint noboddy big enuff 2 make me do that since I hav go mi growth nor neether make me eat spinnage. but this here new ideer whitch I hav herd about is usin gasleen for internal combustion in the human annetermy bi mixin 1 qt of gasleen in 2 qts.on milk. they say it is a fack that yu can git lit up on gasleen & it aint agenst the probishun law. but this new ideer comes from california & I am waitin awhile befoar I try it out.

I gess a gasleen jag wood be alrite only I dont know what wood happen if yu struck a match, but I gess instead of the probishun agents goin around smellin of peeples breth 2 sea if they hav bin drinkin well they will just hold a lited match in front of the suspeck & sea if he is reely lit up.

but like I sed I aint gittin enthusiastic about this drinkin gasleen till I hav saw it tride out, because california is too dedly in there uses of oil out there. first they use it to kill the orange groves & then they use it to kill the hopes of price advances in the midkontinent; they use it 2 kill bugs on fruit trees & of corse 2 kill pedesterans on the streets, & now they are goin 2 go 2 drinkin it.

ennyboddy whitch has tride there gin cant hardly blame them for that thow.

hunny I gess yu had better not say anything about mi new patent till I hav werked on it sum moar. I hav only got the ideer done so far.

yore lovin paul.

## Roeser-Pendleton to Ft. Worth

Fort Worth, Texas.—Headquarters of Roeser-Pendleton, Inc., have been moved from Breckenridge to Fort Worth, where a suite of offices have been obtained on the sixth floor of the Fort Worth Club building. Chas. F. Roeser is president; T. T. Pendleton, vice-president, and Marshall R. Young is secretary-treasurer.

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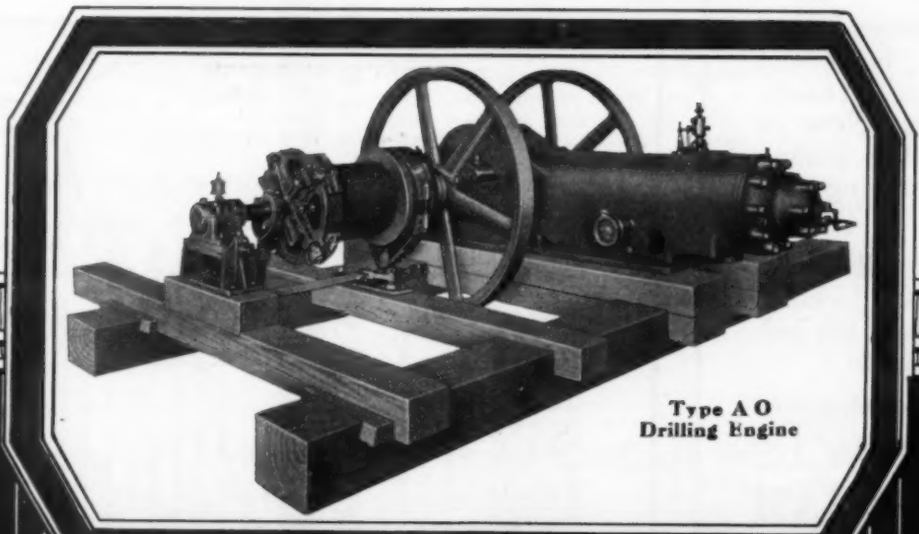

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# Geophysical Methods Replacing Wildcat Drilling

## Five new domes discovered during 1925 would probably been long hid but for new methods


***By L. H. Freedman***
***Geologist, Marland Oil Company****


THE past year marked an important chapter in the history of salt dome development and establishment of petroleum reserves. With exploration methods more fully standardized and organizations built up, the major oil companies settled down to the long and expensive task of the exploration of the entire Gulf Coastal area of Texas and Louisiana. Seven new salt domes have been discovered by use of the recently introduced geophysical methods of geological investigation. When consideration is given to the fact that these discoveries are due entirely to the efficiency of the scientific methods and in practically no instance was there any important physical evidence of a dome such as elevations, gas, oil seeps, paraffine dirt, etc., it is readily apparent that these new methods are performing valiant service in the setting up of petroleum reserves. It is quite likely that many of these domes would not have been discovered for many decades, if ever found, by the old methods of exploration. With all the clearly indicated salt domes discovered the task of uncovering the remaining salines will become increasingly difficult and will require ever increasing diligence.

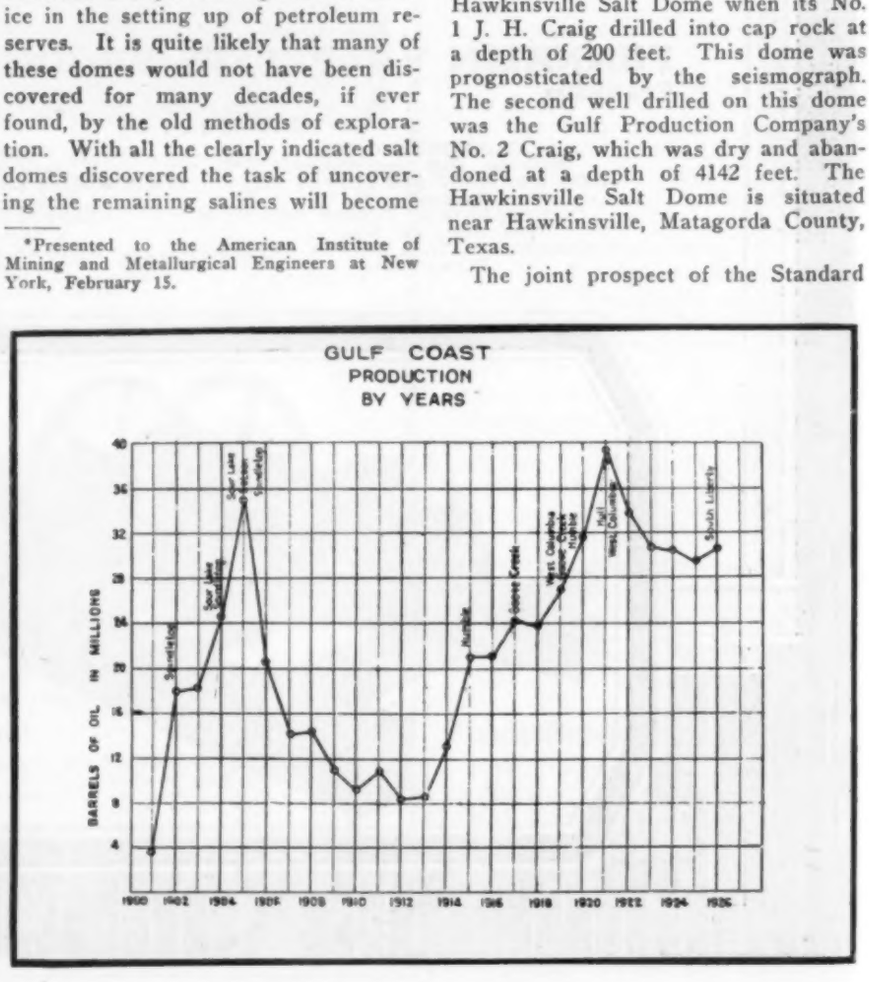
*Presented to the American Institute of Mining and Metallurgical Engineers at New York, February 15.

### First Discovery of Year

The Fannette Salt Dome was the first dome discovered in 1925, being found by the Gulf Production Company and its identity established when the No. 1 E. Thomas et al picked up the cap rock at 859 feet on June 20, 1925. The two subsequent wells drilled on this property went into dome material. The Gulf Production Company's No. 4 Thomas et al was the first well drilled off the dome and was abandoned at a depth of 4744 feet as a dry hole. This salt dome is in Jefferson County and is located three or four miles south of the town of Fannette. It was found by the aid of the seismograph.

On July 17, 1925, the Gulf Production Company proved the presence of the Hawkinsville Salt Dome when its No. 1 J. H. Craig drilled into cap rock at a depth of 200 feet. This dome was prognosticated by the seismograph. The second well drilled on this dome was the Gulf Production Company's No. 2 Craig, which was dry and abandoned at a depth of 4142 feet. The Hawkinsville Salt Dome is situated near Hawkinsville, Matagorda County, Texas.

The joint prospect of the Standard



Oil Company of Louisiana and the Gulf Production Company about five miles south of Starks, Calcasieu Parish, Louisiana was tested by means of the seismograph and indicated the presence of a salt dome which was later proven when the Standard Oil Company of Louisiana drilled the first well on the land of the Industrial Lumber Company. This test on November 5, 1925, drilled into the cap rock at 1280 feet. The Gulf Production Company also drilled into the cap rock on this dome. Both of these wells showed some oil in the cap rock, but upon being tested produced salt and sulphur water.

The Roxana Petroleum Corporation made their initial find in the Gulf Coastal area when their No. 1 Allen picked up gypsum at 1213 feet on December 30th, 1925, proving up what is now known as the Allen Dome. The Allen Dome is located in Brazoria County, Texas, about 10 miles east of Hawkinsville. This dome was found by the use of the torsion balance.

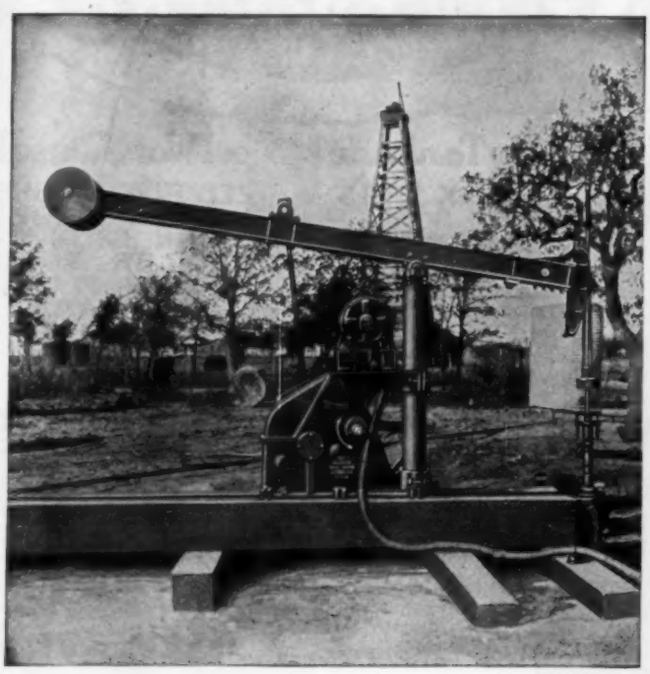
The Roxana Petroleum Corporation also appear to have another salt dome discovered about five miles north of Allen Dome, which is known as the Clemons Dome but to date have not drilled the dome, their first well being located so as to make a deep off-side test. The torsion balance has indicated the presence of a salt dome here.

### Five New Domes

Since 1901 when Spindletop was discovered, no one year has yielded as large a number of new domes as 1925 when five new domes were found. In 1902, three new domes were found, and in 1917 three new domes were also found. In 1925 five domes were discovered under more difficult conditions and with no aid from surface indications.

Despite the extensive prospecting that was carried on for new domes, the old domes also received considerable attention from the operators. The South Liberty Salt Dome, Liberty County, Texas, which was discovered in 1904, had been practically non-productive except for small shallow production since its discovery, until January 1, 1925, when the Winifree Oil Company brought in their No. 1 Pickett for about 750 barrels initial production from a sand 3419 to 3480 feet. As the land was leased in small tracts on all sides of the discovery well, a frenzied drilling campaign was inaugurated and approximately 196 wells were drilled in the scramble for production. Of these wells approximately 158 were productive and their combined initial production was about 130,300 barrels. All told, South Liberty yielded about four and one-half million barrels of oil during the year from a productive area of approximatley 105 acres. This pool is still making about 9500 barrels daily, although there has been practically no

AMERICAN
AURORA, ILL.



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drilling there for the past four or five months.

### High Island

The High Island Salt Dome, Galveston County, looked quite promising in May, when the Gulf Production Company brought in their No. 2 Smith for about 1500 barrels from a depth of 3295 feet. This well was brought in without screen in the hole but nevertheless held its production for many months. However, offsets on both the east and west of this test proved failures and interest in this area has somewhat subsided.

The Pierce Junction Salt Dome, Harris County, came into the limelight when the Rio Bravo Oil Company completed the No. 1 Settegast on September 10th, 1925 for 3000 barrels from a depth of 3875 feet. Their second well also made about 3000 barrels from 3892 feet. This is the first production on the west side of this dome. Pierce Junction has been a bountiful though erratic producer on the east side of the dome and some production has also been developed on the north side.

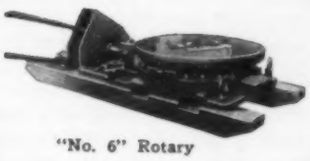
Two of the oldest and most prolific of the domes, are the Batson and Spindletop Salt Domes which have already made over thirty-two and forty-eight million barrels of oil respectively again showed that they were far from being exhausted. At Batson the Kirby Petroleum Company-Capital Oil Company's No. 3 Hodges got away making approximately 10,000 barrels of oil from a depth of 3449 feet on October 28th, 1925. The Yount-Lee No. 2 McFadden on the south flank of Spindletop again turned the eyes of the oil world to Spindletop by making 700 barrels from a depth of 2588 feet.

### Boling Dome

The Texas Company's No. 3 Taylor on the south side of the Boling Dome, Wharton County, brought in on December 18th, 1925, what was probably the most important discovery well of the year as it was the first production on the dome. Several small shallow wells were made in the cap rock previously, but the Texas Company well making approximately 4000 barrels of oil daily started an active leasing campaign to be undertaken by all of the major operators. A number of other wells are being started and another well or two will see the beginning of another boom drilling campaign.

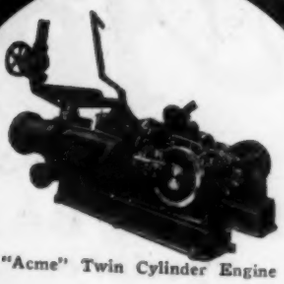
Four days after Boling came in the Humble Oil & Refining Company made a well of their No. 4 Walsh from the Piedras Pintas Salt Dome, Duval County, at 3626 feet good for 1500 barrels of oil. The oil tested 43 degrees Be. gravity and contained fully 75 per cent gasoline and kerosene, an unusual grade oil from a salt dome. In view of the fact that Piedras Pintas is fully 150 miles from the nearest salt dome production, it makes that territory south along the coast look better and

# TITUSVILLE



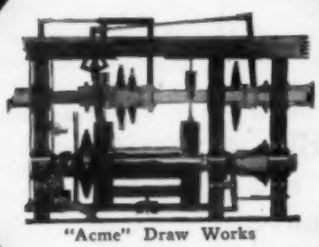
"No. 6" Rotary

"ACME" Swivel



"Acme" Twin Cylinder Engine

## ROTARY OUTFITS



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also lends a more promising aspect to the vast acreage between the Markham and Big Hill Domes, Matagorda County and Duval County, Texas.

The Lockport Pool, Calcasieu Parish, Louisiana, added two additional wells to its productive list during the year when the Vacuum Oil Company's No. 3 and No. 4 were brought in respectively for 1205 barrels at 4402 feet and 2000 barrels from 4338 feet. These brought the total number of producers up to three, the discovery well No. 1 Miller having been brought in during 1924 for 5000 barrels at a depth of 3876 feet. Ten dry holes were drilled around the productive trio, two of the tests attaining depths of over 6000 feet and another pair going below 5000 feet in the vain attempt for production. The other failures were all drilled below 4000 feet before abandonment.

The Pure Oil Company drilling at Sweet Lake, Calcasieu Parish, Louisiana, secured a gas well at a depth of 4503 feet and are now continuing the development in the area.

Geophysical exploratory work has practically displaced wildcat well drilling in the search for new salt domes in this area. The new scientific methods have proven much more efficient than the slow process of drilling.

### Production Maintained

Production on the Gulf Coast for the past year has been maintained in a very satisfactory manner as can be seen from the following tabulation. This production has been maintained from old settled production, the only new flush production that had been obtained during the year being the oil yielded by South Liberty during the first part of the year.

The accompanying graph will show the past fluctuations in the annual coastal production. Inserted opposite each of the unusual rises shown on the graph is indicated the name of the field whose flush production was responsible for the irregularity.

### Annual Gulf Coastal Production

| Year | Texas Bbls. | Louisiana Bbls. | Total Coastal Prod. in Bbls. |
|---|---|---|---|
| 1921 | **3,593,113** | | 3,593,113 |
| 1902 | 17,465,287 | 548,617 | 18,013,904 |
| 1903 | 17,449,064 | 921,836 | 18,370,900 |
| 1904 | 21,672,111 | 2,941,419 | 24,613,530 |
| 1905 | 29,855,427 | 8,910,416 | 38,765,843 |
| 1906 | 11,680,366 | 9,050,174 | 20,730,540 |
| 1907 | 9,222,473 | 4,955,313 | 14,177,786 |
| 1908 | 10,483,200 | 5,288,937 | 15,772,137 |
| 1909 | 8,852,590 | 2,030,740 | 10,883,330 |
| 1910 | 7,929,863 | 1,750,602 | 9,680,465 |
| 1911 | 7,275,281 | 3,713,592 | 10,988,873 |
| 1912 | 6,145,168 | 2,085,490 | 8,230,658 |
| 1913 | 5,825,226 | 2,717,269 | 8,542,495 |
| 1914 | 10,617,063 | 2,500,966 | 13,118,029 |
| 1915 | 17,468,788 | 3,909,505 | 21,378,293 |
| 1916 | 18,341,498 | 3,426,496 | 21,767,994 |
| 1917 | 21,380,641 | 2,830,238 | 24,210,879 |
| 1918 | 21,250,921 | 2,738,201 | 23,989,122 |
| 1919 | 24,969,364 | 2,300,000 | 27,269,364 |
| 1920 | 29,845,127 | 1,944,000 | 31,789,127 |
| 1921 | 37,754,090 | 1,930,000 | 39,684,090 |
| 1922 | 32,182,760 | 1,769,989 | 33,952,749 |
| 1923 | 28,290,325 | 2,540,712 | 30,831,037 |
| 1924 | 23,150,065 | 6,004,098 | 29,154,163 |
| 1925 | 26,114,402 | 4,840,643 | 30,955,045 |
| | 448,814,213 | 81,715,253 | 530,463,466 |

## Los Cerritos Wells Have Lost Their Kick

Long Beach, Calif.—Los Cerritos field's activity peak has been reached.

A check of drilling operations and completions indicates a general slackening of development work here in the past week. Failure to show a continued gain in production resulted not so much from lack of completions as from a drop in the average initial production of those completions. The general run of new wells in the Los Cerritos extension of Long Beach a few weeks ago was from 600 to 1500 barrels, whereas today initial outputs fall within from 200 to 300 barrels, with few exceptions.

Further indication of an immediate slump in activity in the region is that the recent completions do not "come in" but have to be "pumped in." In several instances, late attempts at swabbing in wells have proven futile, and in the words of field men, Los Cerritos wells have "lost their kick."

Initial production of Long Beach and Los Cerritos combined fell to 2775 barrels last week, while during weeks previous it had been running from 3500 to 5000 barrels. Of the 123,000 barrels gross daily average production attributed to Long Beach during the past week, 14,000 barrels were produced in the Los Cerritos extension.

California Petroleum Corporation, one of the larger companies operating at Long Beach, believes there is a possibility of opening up a structure east of American Avenue and about three-fourths of a mile north of production. To this end, it has secured 200 acres of the Jotham Bixby tract, which will be tested immediately. This section of the Jotham Bixby acreage is regarded favorable by a number of geologists.

It begins to look as though Thomas A. O'Donnell's attempt to pick up a deep sand in his northwest outpost well, O'Donnel No. 51, will fail. The well located a half mile northwest of production, out on Chestnut Avenue, has been drilled to 4500 feet, but as yet has found nothing indicative of better conditions below this depth.

## Marland Moves Houston Office

Houston, Texas.—The geological department of the Marland Oil Company of Texas, which has been maintained in Houston since the moving of the Marland of Texas headquarters to Fort Worth in the fall of 1925, has moved from the Cotton Exchange Building to 1911-1922 Post-Dispatch Building. The department, headed by Alexander Deussen, has a force of about twenty members including a scouting force.


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## California Naval Reserve Case Before Supreme Court

Washington, D. C.—The United States Supreme Court has been asked to review the decision of the Federal Court of California under which leases of Naval reserve lands of Edward L. Doheny were cancelled. The lands involved were in Naval reserves Nos. 1 and 2.

The petition filed by counsel for Mr. Doheny declares that the Court of Appeals erred in ruling that the Government could keep all of the improvements made by Mr. Doheny's companies at Pearl Harbor, Hawaii, and was entitled to restoration of the leases on the naval reserves, while the companies were entitled to no compensation for the work they had done.

It is also asserted that the ruling of the court is in conflict with the 1920 act of Congress placing the naval reserves under the Secretary of the Navy.

## Government More Efficient Than Receiver in Oil Field

Washington, D. C. — Despite the fact that flush production had passed before it took over the wells, the Interior Department operated the Red River Oil Field during a period of 17 months at a lower cost per barrel of oil produced than had been done under Federal receivership, it is declared in a report issued by the department.

During its management of the field approximately 308,000 barrels of oil were produced at an average cost of 79 cents per barrel, while during the receivership approximately 2,275,000 barrels were produced at an average cost of 88 cents per barrel, during a time when wells were running under flush production. When the department took over the field, it is stated, some of the larger producing wells had become exhausted and others were exhausted shortly after.

The 79 cents per barrel, it is stated, comprised general expenses connected with the operation, such as administrative salaries and office maintenance, and lifting and all other operating field charges, expenditures for the field camp, construction and repair of bridges and other equipment in use.

This is believed to be the first experience of the Federal Government as an active operator of an oil field, it is pointed out. One feature of the situation was that the Red River field happened to be one of the most difficult. Producing oil from 30 or more wells located along and in the bed of a river susceptible to floods of tremendous volume put hard burdens on the Government engineers.

---

**Harry C. Potts**, field engineer for Kerotest cast steel valves and fittings, arrived in New York City February 18, from South America. Mr. Potts has spent the last several months in the various fields of Venezuela, Colombia and Panama, and is extremely enthusiastic as to the future of the fields which are now being developed in those countries.

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This rig is as good as new, has only drilled two holes and is housed under cover and well cared for. If interested will send itemized list together with price. Address W. J. Duhig, Lake Charles, La.

Deep Test Well Now Drilling in North Florida
T. F. Bray and associates from Arkansas are now drilling a deep test well for oil and gas located on the Monticel'o dome in Jefferson County, Florida. Send for structural and drainage map, also Geological report. Geology by Dr. S. T. Wisby of Little Rock, Arkansas. We desire to hear from all of those who are interested in purchasing leases and royalties around this well.
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# SQUEAKS FROM THE BULL WHEEL

### He Got the Insurance

Most of the insurance jokes about Hebrews has to do with fires, but here is one that differs:

Ikey approached an insurance agent and announced that he wanted $10,000 life insurance.

"Fine! Is your father living?"

"No, he's dead."

"How old was he when he died?"

"Forty-one."

"What did he die of?"

"Consumption."

"Un-huh. Is your mother living?"

"No, she had it, too, she died when she was 36."

"Man, you can't get any insurance with that family history."

So Ikey went to see another agent.

"I want to take out $50,000 life insurance."

"Fine, is your father living?"

"No, he's dead."

"How old was he when he died?"

"Ninety-one."

"What did he die of?"

"He fell off a polo pony."

"Is your mother living?"

"No, she's dead."

"How old was she when she died?"

"Eighty-nine."

"What did she die of?"

"Child-birth."

He got the insurance.

---

Madame (languorously)—Here is the street corner where you used to wait for me every night before we were married.

Monsieur (observing on the famous corner a young man holding a bouquet)—Life is an eternal cycle. Another idiot has taken my place. — Le Journal Amusant (Paris).

---

Captain—"Please, sir, your wife has fallen overboard."

Owner—"Confound it! Another one of those sinking spells of hers!"

---

"So you have decided to call in another doctor?"

"I have," was the reply. "The absurdity of the man prescribing linseed-tea and mustard-plaster for people of our position."

### Florida

Florida is the chin whiskers of the United States.

It is six hundred miles long, two hundred miles wide and three feet high.

It is bounded on the north by the Eighteenth Amendment and on the other three sides by the three-mile limit.

Florida is inhabited by the Indians, Americans, White Men and Feedbag tourists, sometimes called Tincanners—all of whom are real estate dealers.

The Reds live on the Everglades, the Blacks live on the Whites, and the Tourists and Tincanners live on the Municipal Camp Grounds.

Florida's principal sources of income are hotels, fruit, alligator skins, tourists and the best press agents east of California.

But the one outstanding feature of Florida is its fruit, orange-raising coming first, of course.

Raising oranges in Florida is a cinch. All that is required is enough money to live on while raising oranges.

The next Florida fruit in importance is the grapefruit. A grapefruit is a cross between a lemon, a dose of iodine and a pumpkin. It has the color and disposition of a blonde ticket seller at a moving picture theatre. They are usually eaten at breakfast, thus giving the double advantage of a meal and the morning shower bath at the same time.

The tangerine is a distinct cousin of the orange. It wears a loose and careless Mother Hubbard style wrapper, is easier to disrobe than the orange, but is of a more dry, withered and disappointing disposition when undressed.

The kumquat is the only thing in Florida that acts up to its name. It looks and tastes just the way it sounds.

---

Five babies are born every minute in the United States and at the same time Henry Ford turns out a rattle for each one.
—Pure Oil News.

---

Stu: "D'you hear about Margie—she jumped out of Freddie's aeroplane yesterday."

Pid: "Good to the last drop!"

### A Sad Story

"One day," the old countryman from the hills, who was on trial for murder, "when my rheumatism was pestering me, and my daughter had just eloped with a good for nothin' scallawag, and my barn had burned down and I lost both my mules, and my best old sow got the cholera and died, and I just heard they had foreclosed the mortgage and the sheriff was looking for me, I told my troubles to one of these here optimists and he said: "Cheer up, old top, the worst is yet to come!' So I shot him."

---

The big man in the audience (turning around)—"Can't you see anything?"

Little Man (Pathetically)—"Can't see a streak of stage."

Big man (sarcastically) —"Why then, I'll tell you what to do. You keep your eyes on me and laugh when I do."

---

### Sweet Dreams

My driller sits upon his stool
He wears a studied frown
With every stroke the pitman makes
His head goes up and down,
He chomps a wicked mail pouch cud
And spits an awful stream
Then flicks his ear and rubs his chin
And pinches down the steam.
He looks to be a royal man,
A man with thoughts quite deep.
But if you take a closer look
You'll see that he's asleep.
—Bridgeport Driller.

---

### Yes

"My rose," he said, as he pressed her velvet cheek to his.

"My castus," she said as she encountered his stubble.

---

Teacher — "Now, children, what great woman's letters reflect the suffering and misery of her time?"

Chorus—"Lydia Pinkham's!"

---

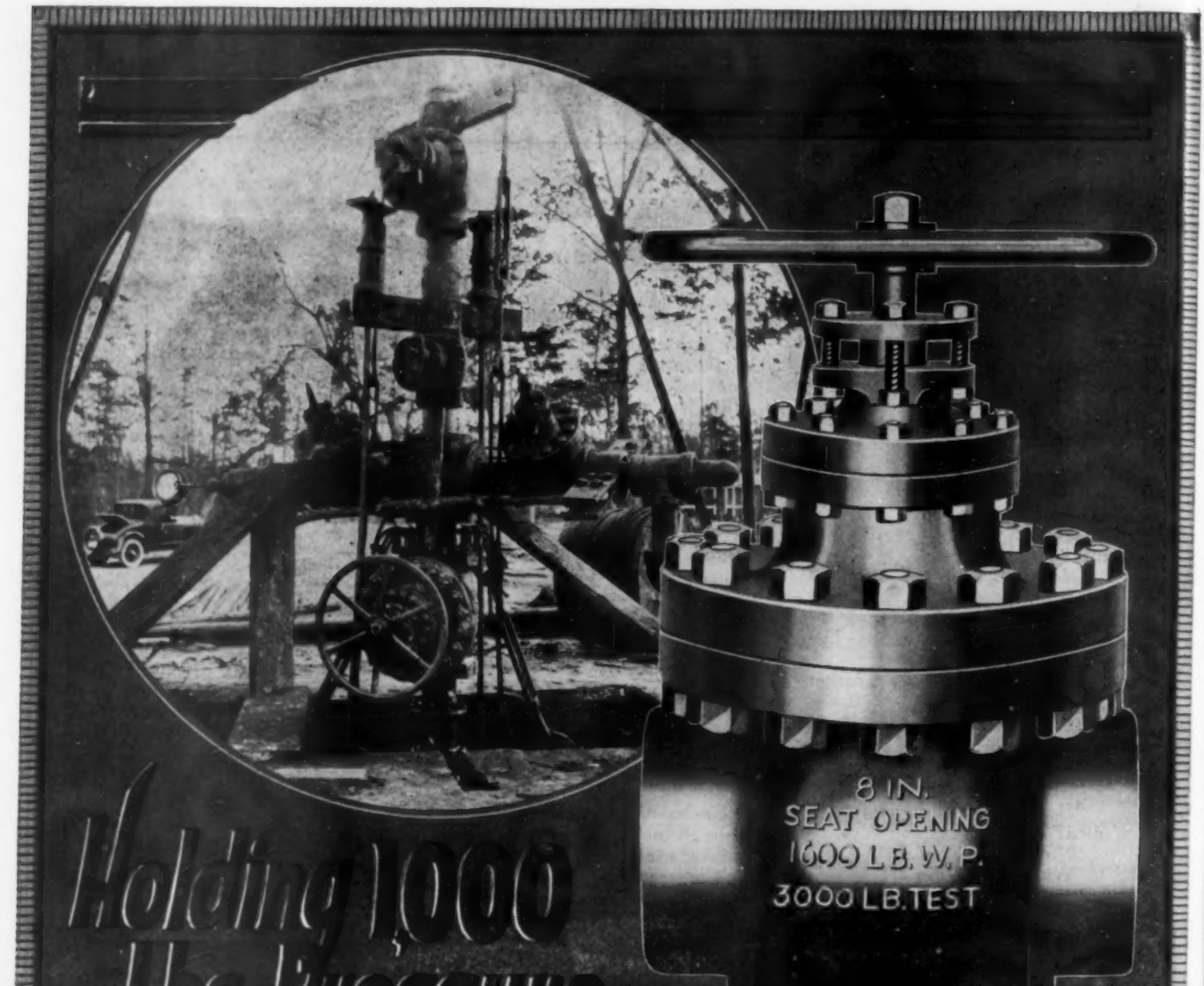
"Is this pre-war stuff?"

"Yes, sir. It's always followed by a fight."

---

Irate Manager: "Late again! Have you ever done anything on time?"

His Clerk: "I bought a car."




# Holding 1,000 Lbs. Pressure

There is over 1000 pounds rock pressure on this Gulf well at Smackover. There's no danger, however, of the WESTCOTT Drilling Gate failing to hold the pressure. This steel valve is built for 1600 pounds working pressures, and is tested to 3000 pounds.

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Gardner Governor Co.
Sullivan Machinery Co.

**Asbestos and Magnesia—**
Johns-Manville, Inc.

**Attorneys—**
Hirsch & Hannay
Vinson, Elkins & Wood

**Babbitts—**
Eagle Picher Lead Company

**Balls and Seats—**
Norris Brothers
Northrup Equipment Company
The Charles N. Hough Mfg. Co.

**Band Wheels—**
Emsco Steel Products Co.
International Derrick & Equipment Co.
Lee C. Moreo & Co., Inc.
Parkersburg Rig & Reel Co.

**Bell Nipples—**
The Cunningham Co.

**Belting—**
Bridgeport Machine Co.
Continental Supply Company
Frick-Reid Supply Co.
International Supply Co.
Oil Well Supply Co.
Republic Supply Co.

**Belt Clamps—**
Federal Supply Company

**Bit Steel—**
Andrews Steel Co.
Central Steel Co.
Ludlum Steel Co.

**Black Diamonds—**
R. S. Patrick

**Boilers—**
Bridgeport Machine Co.
The Brownell Co.
Continental Supply Company
Coatesville Boiler Works
Frick-Reid Supply Co.
International Supply Co.
The Longhart Supply Company
The National Supply Cos.
Oil Well Supply Co.
Republic Supply Co.
Regan Forge & Engineering Co.
Star Drilling Machine Co.
Titusville Iron Works Co.
United Iron Works, Inc.
See Oil Field Supplies and Tanks

**Boiler Mountings—**
The Lunkenheimer Co.

**Boiler Tubes—**
Peden Iron & Steel Company
The Tyler Tube & Pipe Co.

**Blowout Preventer—**
Baash-Ross Tool Co.
Cameron Iron Works
Regan Forge & Engineering Co.

**Burners—**
Continental Supply Company
Gaso Pump & Burner Mfg. Co.
Regan Forge & Engineering Co.
Okmulgee Boiler & Welding Wks.

**Bull Wheels—**
International Derrick & Equipment Co.
Lee C. Moore & Co., Inc.
Parkersburg Rig & Reel Co.

**Calf Wheels—**
International Derrick & Equipment Co.
Lee C Moore & Co., Inc.
Parkersburg Rig & Reel Co.

**Carbon and Bortz—**
R. S. Patrick

**Casing—**
Continental Supply Company
National Tube Co.
Peden Iron & Steel Company
Regan Forge & Engineering Co.
Republic Supply Co.
South Chester Tube Company
Superior Tube Co.

**Casing Shoes—**
Baker Casing Shoe Co.
Bridgeport Machine Co.
Continental Supply Company
The National Supply Cos.
Regan Forge & Engineering Co.
Republic Supply Co.

**Cement Hardener—**
The Sullivan Co.

**Chain Blocks—**
Yale & Towne Mfg. Co.

**Charcoal Iron Boiler Tubes—**
The Tyler Tube & Pipe Co.

**Chemicals—**
Ward Chemical Co.

**Collapsible Rotary Bits—**
O. M. Carter

**Control Heads—**
Southern Brass Mfg. & Plating Company
Regan Forge & Engineering Co.

**Conservation—**
Westcott & Greis

**Core Drills—**
Allen & Courtney Oil Tool Co.
O. M. Carter
Elliott Core Drilling Co.
H. C. Smith Mfg. Co.
Spengler Core Drilling Co.

**Compressors—**
Butler Mfg. Co.
Gardner Governor Co.
Hope Engineering & Supply Co.
Sullivan Machinery Co.
United Iron Works, Inc.

**Cordage—**
Continental Supply Company
The Longhart Supply Company
The National Supply Cos.
Republic Supply Co.

**Crown Blocks—**
Baash-Ross Tool Co.
Continental Supply Company
International Derrick & Equipment Co.
Lufkin Foundry & Machine Co.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.

**Couplings—**
Harrisburg Pipe & Pipe Bending Co.
Superior Tube Company

**Cocks, Drain—**
The Lunkenheimer Company

**Dehydrating Processes—**
Wm. S. Barnickel Co.
Petroleum Rectifying Co.

**Derricks and Rigs—**
International Derrick & Equipment Co.
Lee C. Moore & Co., Inc.
National Turnbuckle Derrick Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Robertson-McDonald Lumber Co.
Superior Tube Company

**Diamond, Black—**
R. S. Patrick
Sullivan Machinery Co.

**Diamond Core Drills—**
R. S. Patrick
Sullivan Machinery Co.

**Diamond Drilling Carbon—**
R. S. Patrick

**Diesel Engines—**
Busch-Sulzer Bros. Diesel Engine Co.
McIntosh & Seymour Corp.

**Ditchers—**
Buckeye Traction Ditcher Co.

**Draw Works—**
Emsco Derrick & Equipment Co.
Lufkin Foundry & Machine Co.

**Drilling Cables—**
American Cable Co.
Bridgeport Machine Co.
Continental Supply Company
Frick-Reid Supply Co.
The National Supply Cos.
Peden Iron & Steel Co.
Regan Forge & Engineering Co.
Republic Supply Co.
Star Drilling Machine Co.
Wickwire Spencer Steel Corp.

**Drill Pipe Slips—**
Baash-Ross Tool Co.

**Drilling Machines—**
Bridgeport Machine Co.
Clark Machine Company
Continental Supply Company
Parkersburg Rig & Reel Co.
Star Drilling Machine Co.

**Drill Collars—**
Baash-Ross Tool Co.
Continental Supply Company
Federal Supply Co.

**Drill Pipe Cutting—**
Baash-Ross Tool Co.
Houston Engineers, Inc.

**Drilling Tools—**
Acme Fishing Tool Co.
Baash-Ross Tool Co.
Continental Supply Company

**Drilling, Diamonds for—**
R. S. Patrick

**Drill Pipe—**
Continental Supply Company
Frick-Reid Supply Co.
National Tube Co.
Peden Iron & Steel Company
Republic Supply Co.
Reading Iron Co.
South Chester Tube Company

**Drilling Equipment—**
Baash-Ross Tool Co.
Bridgeport Machine Co.
Hercules Supply Co.
Republic Supply Co.
Star Drilling Machine Co.
Superior Tube Co.

**Drive Pipe—**
Continental Supply Company
Republic Supply Co.
Reading Iron Co.
Superior Tube Company

**Electrical Equipment—**
General Electric Co.
Westinghouse Elec. & Mfg. Co.

**Elevators—**
Bridgeport Machine Co.
The Cunningham Co.
Dunn Mfg. Co.
LeBus Rotary Tool Works
Wilson & Willard Mfg. Co.

**Electric Equipment—**
General Electric Co.

**Engines, Diesel—**
Western Machinery Co.

**Engines, Gas—**
Bruce-Macbeth Engine Co.
Climax Engineering Co.
Frick-Reid Supply Co.
Hope Engineering & Supply Co.
Spence Machine Co.
The Pattin Bros. Co.
Waukesha Motor Company
Western Machinery Co.

**Engines, (Gasoline or Kerosene)—**
Climax Engineering Co.
Continental Supply Company
Waukesha Motor Co.

**Engines, Oil—**
Frick-Reid Supply Co.
The Pattin Bros. Co.
Western Machinery Co.

**Engines, Pumping—**
Ajax Iron Works
Bessemer Gas Engine Co.
Bridgeport Machine Co.
Climax Engineering Co.
Continental Supply Company
The Brownell Co.
De La Vergne Machine Co.
Franklin Valveless Engine Co.
Frick-Reid Supply Co.
Hope Engineering Co.
Lucey Mfg. Corp.
Lufkin Foundry & Machine Co.
The National Supply Cos.
National Transit Pump & Machine Co.
Oil Well Supply Co.
Peden Iron & Steel Co.
Republic Supply Co.
Rock Island Plow Co.
Spence Machine Co.
Southern Engine & Pump Co.
Titusville Iron Works
Waukesha Motor Company
Western Machinery Co.

**Engineers—**
Hope Engineering & Supply Co.
Lee C. Moore & Co.
D. T. Ring

**Fire Protection—**
Oil Conservation Engineering Co.

**Fire Snuffers—**
Simplex Equipment Company

**Fish Tail Bits—**
Continental Supply Company
Frick-Reid Supply Co.
Federal Supply Co.
Lucey Mfg. Corp.
Pelican Well Tool & Supply Co.
Regan Forge & Engineering Co.

**Filters, Gas—**
Metric Metal Works

**Fishing and Drilling Tools—**
Federal Supply Co.

**Floor Circle Braces—**
Dunn Mfg. Co.

**Fuel Oil—**
Gulf Refining Co.
Sinclair Refining Co.

**Gasoline Extraction Compressors—**
Continental Supply Co.
Bessemer Gas Engine Co.
Hope Engineering & Supply Co.
Sullivan Machinery Co.

**Gauge Cocks—**
The Lunkenheimer Company

**Gauge Hatches—**
General Machine Works
Oil Conservation Engineering Co.
Westcott & Greis

**Gauges—**
Oil Conservation Engineering Co.
Metric Metal Works
Westcott & Greis

**Gas Engines—**
C. F. Camp Co.
Emsco Derrick & Equipment Co.
S. M. Jones Co.
Joseph Reid Gas Engine Co.
Waukesha Motor Co.

**Gas Generators—**
Baird Supply Co.

**Gas Lift System—**
Jones-McLaughlin Co.

**Gas Traps—**
American Tank Co.
Lorraine Corp.
Smith Separator Co.
Trumble Gas Trap Co.

**Gasoline and Oil Storage Tanks—**
Butler Mfg. Co.
Kansas City Struct. Steel Co.

**Genuine Wrought Iron Casing—**
Reading Iron Co.

**Geologists—**
Edwin B. Hopkins
Armstrong, Price W.

**Governors—**
Gardner Governor Co.

**Grips and Clamps—**
J. P. Ratigan
Sargent Engineering Corp.

**Heat Exchangers—**
Brown Welding & Machine Co.
Hope Engineering & Supply Co.

**Hoists—**
Emsco Steel Products Co.

**Hose—**
Continental Supply Company
Peden Iron & Steel Company

**Houses—**
Crain Ready-Cut House Co.

**Iron Casing—**
Superior Tube Company
South Chester Tube Company

**Jars—**
Spang & Co.

**Joint Collars—**
Federal Supply Co.

**Laboratory Equipment—**
Fort Worth Laboratories

**Lapwelded Steel Boiler Tubes—**
The Tyler Tube & Pipe Co.

**Lead in Oil—**
Eagle Picher Lead Co.

**Lead Wool and Containers—**
Eagle Picher Lead Co.

**Lighting Systems—**
Bridgeport Machine Co.
General Electric Company
Westinghouse Elec. & Mfg. Co.

**Line Pipe—**
Continental Supply Company
Peden Iron & Steel Company
Republic Supply Co.
Reading Iron Co.

**Litharge—**
Eagle Picher Lead Company

**Lumber—**
Robertson-McDonald Lumber Co.

**Lubricators—**
The Lunkenheimer Company
Manzel Bros. Co.

**Maps—**
Heydrick Mapping Co.

**Meters—**
Continental Supply Company
Metric Metal Works
Westcott & Greis

**Meter Connections—**
Metric Metal Works

**Meters, Flow—**
Metric Metal Works

**Meters, Orifice—**
Metric Metal Works

**Motors—**
General Electric Co.
Westinghouse Elec. & Mfg. Co.

**Oiling Devices—**
The Lunkenheimer Company

**Oil Field Supplies—**
Butler Mfg. Co.
Bridgeport Machine Co.
Continental Supply Company
The Cunningham Co.
Federal Supply Company
C. C. Fetty
Frick-Reid Supply Co.
Erle P. Halliburton
Hercules Supply Co.
International Supply Co.
Jarecki Mfg. Company
Lee C. Moore & Co.
Lucey Mfg. Corp.
The Lunkenheimer Company
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Company
Petroleum Iron Works Co., The
Republic Supply Co.
Regan Forge & Engineering Co.
Smith Separator Co.
Southern Brass Mfg. & Plating Company
United Iron Works, Inc.
J. H. Williams & Co.
Wilson & Willard Mfg. Co.

**Oil and Gas Packing and Insulations—**
Johns-Manville, Inc.

**Oil Well Casing—**
Continental Supply Company
Frick-Reid Supply Company
Republic Supply Company

**Oil Well Cementing—**
Erle P. Halliburton
Oklahoma Portland Cement Co.

**Oil Well Reamers—**
Jones Oil Well Reamer Co.

**Oil Well Shooting—**
Eastern Torpedo Company
U. S. Torpedo Co.
Zero Hour Torpedo Co.

**Overshots—**
Baash-Ross Tool Co.
Continental Supply Company
LeBus Rotary Tool Works
Regan Forge & Engineering Co.

**Packers—**
The Guiberson Corp.
Larkin & Co.
Layne & Bowler
Regan Forge & Engineering Co.

**Packing—**
Continental Supply Company
Frick-Reid Supply Co.
The National Supply Cos.
Peden Iron & Steel Company
Republic Supply Co.

**Paints—**
Continental Supply Company
Eclipse Paint & Mfg. Co.
Peden Iron & Steel Co.
Sullivan Company
Tnemec Paint & Oil Co.

**Panel Boards—**
General Electric Co.
Westinghouse Elec. & Mfg. Co.

**Patents—**
Hardway & Cathey
Lancaster & Allwine
Jesse R. Stone

**Perforated Casing—**
Kobe, Inc.

**Pipe—**
Central Tube Co.
Continental Supply Company
Frick-Reid Supply Co.
Harrisburg Pipe & Pipe Bending Co.
Hercules Supply Co.
International Supply Co.
National Tube Co.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Company
Reading Iron Co.
Republic Supply Co.
South Chester Tube Company
Youngstown Sheet & Tube Co.
Wilson & Willard Mfg. Co.

**Pipe Cleaning Machines—**
W-K-M Company

**Pipe Screwnig Machines—**
Buckeye Traction Ditcher Co.

**Pipe Threading Machines—**
Jarecki Mfg. Company
Landis Machine Co.
Williams Tool Corporation

**Pipe Vises—**
J. H. Williams & Co.

**Pipe Wrenches—**
Dunn Mfg. Co.
The Guiberson Corp.
LeBus Rotary Tool Works
Republic Supply Co.
J. H. Williams & Co.
Wickwire Spencer Steel Corp.

**Plumb Bobs and Seats—**
Sargent Engineering Corp.

**Portable Buildings—**
Butler Manufacturing Co.
International Derrick & Equipment Co.

**Portable Drilling Rigs—**
Bridgeport Machinery Co.
Continental Supply Company
Lee C Moore & Co., Inc.
Parkersburg Rig & Reel Co.
Star Drilling Machine Co.
The National Supply Cos.
Waukesha Motor Company

**Portable Compressors—**
Sullivan Machinery Co.

**Provers—**
Metric Metal Works

**Pulleys—**
Continental Supply Company
International Derrick & Equipment Co.
Lee C. Moore & Co., Inc.

**Pulling Machines—**
Clark Machine Co.
Continental Supply Company
Iron King Mfg. Co.

**Pumps—**
Axelson Machine Co.
Continental Supply Company
D & B Pump & Supply Co.
C. C. Fetty
Frick-Reid Supply Co.
Gardner Governor Co.
Gaso Pump & Burner Mfg. Co.
Goulds Manufacturing Co.
Jarecki Manufacturing Co.
Lucey Manufacturing Corp.
National Transit Pump & Machine Co.
Northrup Equipment Company
Oil Well Supply Co.
Peden Iron & Steel Company
Republic Supply Co.
Southern Engine & Pump Co.
United Iron Works, Inc.
Waukesha Motor Co.

**Pumping Engines—**
C. F. Camp Co.
McIntosh & Seymour Corp.

**Pumping Equipment—**
General Electric Company
Northrup Equipment Company
Shaffer Specialty Co.

**Pumping Powers—**
American Well Works Co.
Continental Supply Company
C. C. Fetty
Frick-Reid Supply Co.
International Supply Co.
Jarecki Mfg. Co.
Jensen Bros. Mfg. Co.
Kansas City Hay Press Mfg. Co.
Spence Machine Co.

**Regulators—**
Westcott & Greis

**Refined Products—**
Gulf Refining Co.
Humble Oil & Refining Co.
Magnolia Petroleum Co.
Sinclair Refining Co.
The Texas Co.

**Recorders—**
Fort Worth Laboratories

**Refinery Equipment—**
Butler Mfg. Co.
Continental Supply Company
Petroleum Iron Works Co., The
Republic Supply Co.
Smith Separator Co.
Titusville Iron Works
United Iron Works, Inc.
Westcott & Greis
Wyatt Metal & Boiler Works

**Reverse Gears—**
Emsco Derrick & Equipment Co.

**Rig Irons—**
International Supply Co.
Lee C. Moore & Co., Inc.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.
Republic Supply Co.

**Rotary Machines—**
Emsco Derrick & Equipment Co.

**Roofing and Shingles—Asbestos—**
Johns-Manville, Inc.

**Rope Socket Metal—**
Eagle Picher Lead Co.

**Rotaries—**
International Supply Co.

**Rotary Fish Tail Bits—**
Continental Supply Company
Multi-Cutr Rotary Bit Co.
Pelican Well Tool & Supply Co.
Regan Forge & Engineering Co.
Republic Supply Co.

**Rotary Rock Bits—**
Hughes Tool Co.
Reed Roller Bit Co.

**Rotary Tools—**
Federal Supply Company

**Safety Casing Clamps—**
Shaffer Specialty Company

**Sand Pumps—**
Larkin & Co.

**Sand Reel Supports—**
Shaffer Specialty Co.

**Screen Casing—**
Kobe, Inc.
Wilson & Willard Mfg. Co.

**Separators—**
Butler Mfg. Co.
Lorraine Corp.
M & V Tank Co.
Smith Separator Co.
Trumble Gas Trap Co.

**Snuffers, Fire—**
Simplex Equipment Co.

**Specialty Manufacturers—**
Shaffer Specialty Co.

**Steel, Alloy—**
Andrews Steel Co.
Central Steel Co.
Ludlum Steel Co.

**Steel Bull Wheels—**
Emsco Derrick & Equipment Co.
McIntosh & Seymour Corp.

**Steel Calf Wheels—**
Emsco Derrick & Equipment Co.

**Steel Derricks—**
Emsco Derrick & Equipment Co.
Emsco Steel Products Co.
International Derrick & Equipment Co.
Lee C. Moore & Co., Inc.
Parkersburg Rig & Reel Co.

**Steel Crown Blocks—**
International Derrick & Equipment Co.
Lee C. Moore & Co., Inc.
Parkersburg Rig & Reel Co.

**Steel Storage Tanks—**
Butler Mfg. Co.
Petroleum Iron Works Co., The

**Strainers—**
Emsco Steel Products Co.
Howard Smith Company
Kobe, Inc.
Layne & Bowler Co.
J. H. McEvoy & Co.

**Special Steels—**
Central Steel Co.

**Structural Steel—**
Butler Mfg. Co.
United Iron Works, Inc.

**Sucker Rod Lines—**
Continental Supply Company

**Sucker Rod Elevators—**
The Cunningham Co.
Axelson Machine Co.

**Sucker Rod Hangers—**
Lorraine Corp.

**Sucker Rod Hooks—**
The Cunningham Co.
Regan Forge & Engineering Co.

**Sucker Rod Rotors—**
Sargent Engineering Corp.

**Sucker Rod Sockets—**
Baird Supply Co.
Brown Welding & Machine Co.
Continental Supply Company
The Cunningham Co.
Federal Supply Company
Shaffer Specialty Co.
Western Supply Co.

**Sucker Rods—**
Axelson Machine Co.
Continental Supply Company
Columbus Sucker Rod Co.
D & B Pump & Supply Co.
Dunn Mfg. Co.
Frick-Reid Supply Co.
S. M. Jones Co.
The National Supply Co.
Kansas City Bolt & Nut Co.
Oil Well Supply Co.
J. P. Ratizan
Republic Supply Co.

**Swabs—**
The Cunningham Co.
Shaffer Specialty Co.
Simplex Equipment Company

**Swing Joints—**
General Machine Works
Westcott & Greis

**Tanks—**
Butler Mfg. Co.
The Brownell Co.
Maloney Tank Co.
M & V Tank Co.
Petroleum Iron Works Co., The
United Iron Works
Wyatt Metal & Boiler Works

**Tank Deadwood—**
Robertson-McDonald Lumber Co.

**Tank Equipment—**
Westcott & Greis

**Temper Screws—**
Burns Tool Co.

**Thermometers—**
Fort Worth Laboratories

**Timbers—**
Robertson-McDonald Lumber Co.

**Tongs—**
Bridgeport Machine Co.
Continental Supply Company
Dunn Mfg. Co.
Guiberson Corporation
Howard Smith Company
LeBus Rotary Tool Works
J. H. Williams & Co.
Wilson & Willard Mfg. Co.

**Tool Joints—**
Baash-Ross Tool Co.
Bridgeport Machine Co.
Continental Supply Company
Emsco Steel Products Co.
Hughes Tool Co.
Peden Iron & Steel Company
Regan Forge & Engineering Co.
Republic Supply Co.

**Tools (Fishing and Drilling)—**
Acme Fishing Tool Co.
Bridgeport Machine Co.
Brown Welding & Machine Co.
Continental Supply Company
Frick-Reid Supply Co.
Houston Engineers, Inc.
Hughes Tool Co.
International Supply Co.
Oil Well Supply Co.
Peden Iron & Steel Co.
Regan Forge & Engineering Co.
Republic Supply Co.
Spang & Co.
Star Drilling Machine Co.
Sullivan Machinery Co.

**Toothless Slips—**
LeBus Rotary Tool Works

**Tractor Winch—**
C. F. Camp Co.
Rock Island Plow Co.

**Traveling Blocks—**
Baash-Ross Tool Co.
Continental Supply Company
Lufkin Foundry & Machine Co.
Regan Forge & Engineering Co.

**Tret-O-Lite—**
W. S. Barnickel & Co.

**Trucks—**
Wichita Falls Motor Co.

**Tubing Catcher—**
Dunn Mfg. Co.
Guiberson Corporation

**Tubing Lines—**
Continental Supply Company

**Tubing Protectors—**
Mexia Planing Mill Co.

**Tubing—**
Continental Supply Company
Central Tube Co.
National Tube Co.
Republic Supply Co.
Reading Iron Co.
South Chester Tube Company

**Underreamers—**
Bridgeport Machine Co.
Wilson & Willard Mfg. Co.

**Vacuum Pumps—**
Sullivan Machinery Co.

**Valves—**
Continental Supply Company
Darling Valve & Mfg. Co.
The Charles N. Hough Mfg. Co.
Ludlow Valve Mfg. Co.
The Lunkenheimer Company
Metric Metal Works
Norris Bros.
Northrup Equipment Company
Smith Separator Co.
Southern Brass Mfg. & Plating Company
Peden Iron & Steel Company
Westcott Valve Mfg. Co.

**Valves, Gate—**
The Lunkenheimer Company

**Valves and Fittings—**
Continental Supply Company
Darling Valve & Mfg. Co.
D & B Pump & Supply Co.
Hercules Supply Co.
Jarecki Mfg. Co.
Kerotest Mfg. Company
Ludlow Valve Mfg. Co.
Lufkin Foundry & Machine Co.
The Lunkenheimer Company
The National Supply Cos.
Peden Iron & Steel Company
Republic Supply Co.
United Iron Works

**Vents—**
Westcott & Greis
Oil Conservation Engineering Co.

**Walking Beams—**
International Derrick & Equipment Co.
Lee C. Moore & Co., Inc.

**Well Shooters—**
Eastern Torpedo of Ohio Co.

**Working Barrels—**
Axelson Machine Co.
Continental Supply Co.
D & B Pump & Supply Co.
Howard Smith Company
Northrup Equipment Company
Peden Iron & Steel Company
Republic Supply Co.
The Charles N. Hough Mfg. Co.
Southern Brass Mfg. & Plating Company

**Water Gauges—**
J. E. Shaffer Company
Smith Separator Co.

**Water Cans—**
H. P. Gott Mfg. Co.

**Water Softening Compounds—**
Ward Chemical Co.

**Wire Rope—**
American Cable Co.
Bridgeport Machine Co.
Continental Supply Company
Hercules Supply Co.
International Supply Co.
The Longhart Supply Company
Peden Iron & Steel Company
Regan Forge & Engineering Co.
Republic Supply Co.
The National Supply Cos.
Wickwire Spencer Steel Corp.
Williamsport Wire Rope Co.

**Wire Rope Fittings—**
American Cable Co.

**Wire Rope Slings—**
American Cable Co.

# The Waters Gauge Cock

It's a gauge you can rely on—under any test.

Special composition disc (not babbitt)—tests in Kansas City laboratory showed a melting point for this metal of 457 degrees Fahrenheit.

Non-corrosive monel metal nozzle is always clean—self sealing when handle is released—it can't leak or spit.

60 seats on the reversible gasket.

Make us prove our statements—we invite any test.

## SMITH SEPARATOR COMPANY

Tulsa S Okla.

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CALIFORNIA OFFICE:
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LONDON OFFICE:
Perkins Macintosh Petroleum Tool & Boring Co., Ltd., 25 Bishopsgate
Cable Address: "Oleborers" London
TEXAS OFFICE:
511 State National Bank Building, Houston, Texas
820 Staley Bldg., Wichita Falls, Texas

# BIT AND JAR-STEEL

**BOX-PIN-STEEL-SLIP-STEEL**

**UNDER-REAMER-BODY and CUTTER STEEL, DRILL COLLAR STEEL**

# ASCO

**CAPPING and SOCKET STEEL TOOL-JOINT STEEL**

**SPECIAL-HIGH-GRADE**

**SPECIAL ALLOY STEEL** **FORGING-BILLETS** **QUALITY and SERVICE**

**Manufactured By**

# ANDREWS STEEL CO.

**NEWPORT, KY.**

# Be Careful In The Selection Of Lubricants For Your Motorized Equipment

**Passenger cars and trucks of different makes vary considerably in type and design.**

**Be sure that you understand: (1). The type of lubricating system used, which determines the method of feeding the oil. (2). The type of cooling system used, this factor having more or less effect on the operating temperatures of various parts of the motor.**

**The proper lubrication of motor equipment does not mean only the lubrication of the engine cylinders—it means the complete lubrication of all of the moving parts of the motor. Much harm can result from the use of too heavy an oil in a pressure system not designed to handle it—also where the "splash" system is used, the oil must not only flow easily, but must atomize readily so as to reach certain bearings which can be lubricated only by a fine mist.**

Your passenger cars and your trucks are designed to give you many years of service—if they are properly lubricated.

Humble Motor Oils are the result of years of experience in lubricating internal combustion engines. The recommendations of Humble lubricating engineers are an added factor of safety. Whether you operate one passenger car and truck, or a whole fleet of motorized equipment, it will pay you to learn more about Humble Oils.

HUMBLE OIL & REFINING CO. HUMBLE OILS HOUSTON, TEXAS

*Write for samples and prices*

## Humble Oil & Refining Company
### Houston, Texas

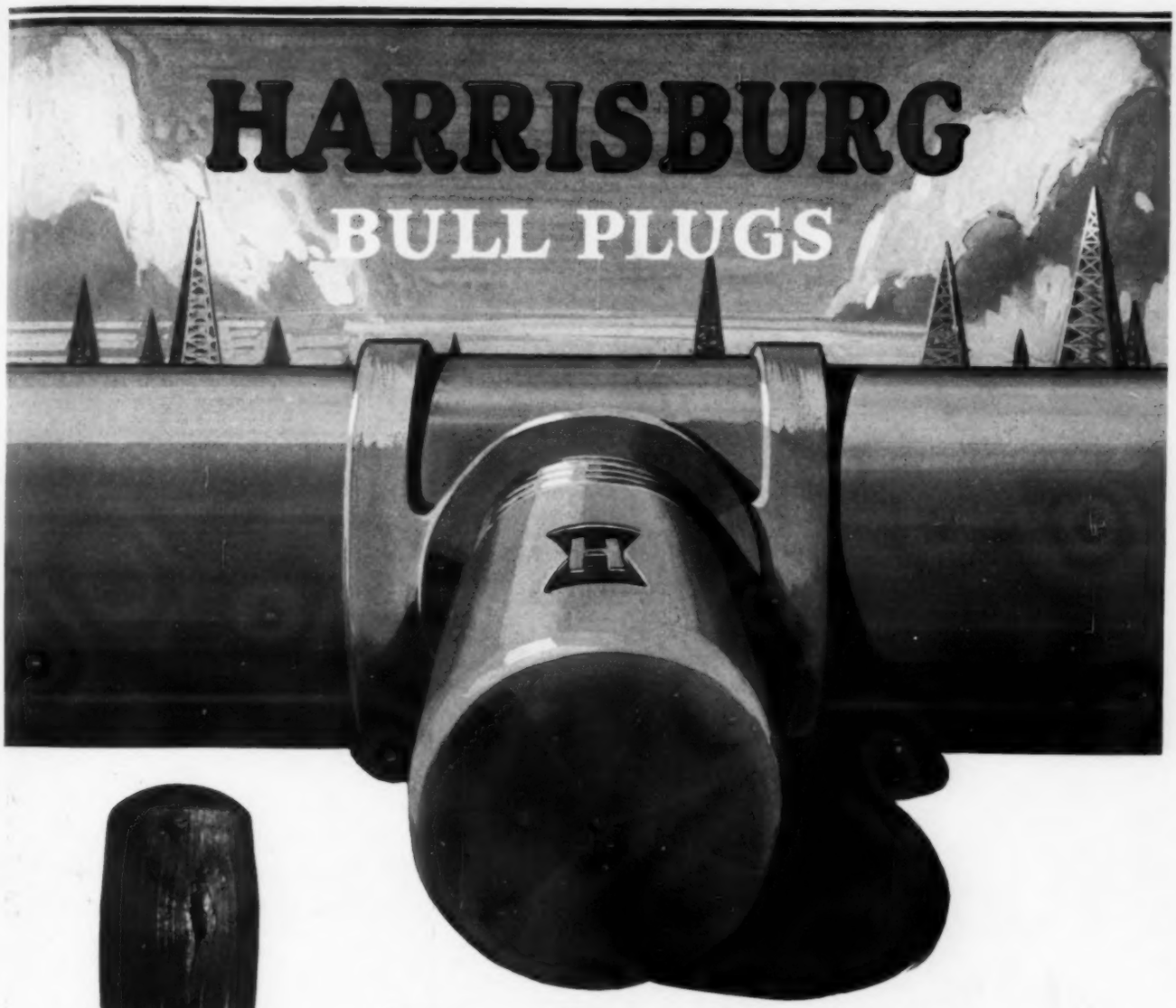
Producers - Pipe Lines
Refiners - Marketers

***There is a Humble Oil which is specially prepared to meet every bearing need in your plant, your trucks, or in your automobile.***

# Humble Oil & Refining Co.
## HOUSTON, TEXAS

**Producers ~ Pipe Lines ~ Refiners ~ Marketers**

# HARRISBURG
## BULL PLUGS



The unusual strength of Harrisburg Bull-Plugs is attested by the fact that it was necessary to exert a hydraulic pressure of 9600 lbs. before the standard weight stock bull-plug shown in the illustration gave way.

## —*have a Six-to-One factor of safety*

Six times stronger than "necessary," and many times tougher than even the heaviest of lap welded bull plugs!

It's forged seamless steel—and plenty of it—that makes a Harrisburg the plug it is. A flat plate of the same steel that is used in the famous Harrisburg Couplings is forged into a bull plug that will stand up indefinitely under far greater pressure than is ever encountered in actual service.

Considering the importance of bull plugs it is good to know that the best plug costs no more than the others. Ask the nearest supply house for Harrisburg.

**HARRISBURG PIPE AND PIPE BENDING COMPANY**
Harrisburg, Pa.

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*Forged Seamless Steel Oil Field Products*

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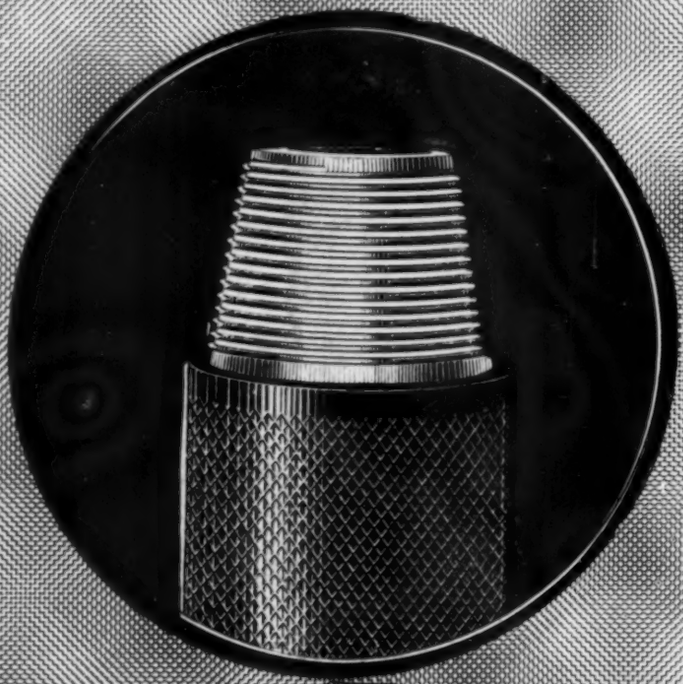

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